

THE UNIVERSITY OF TEXAS

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Bibliography and Index of Texas Geology, 1933-1950

ROSELLE M. GIRARD

BUREAU OF ECONOMIC GEOLOGY

THE UNIVERSITY OF TEXAS, AUSTIN

JOHN T. LONSDALE, *Director*

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The benefits of education and of useful knowledge, generally diffused through a community, are essential to the preservation of a free government.

SAM HOUSTON

Cultivated mind is the guardian genius of Democracy, and while guided and controlled by virtue, the noblest attribute of man. It is the only dictator that freemen acknowledge, and the only security which freemen desire.

MIRABEAU B. LAMAR

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Bibliography and Index of Texas Geology, 1933-1950

ROSELLE M. GIRARD

INTRODUCTION

This bibliography and subject index pertaining to Texas geology cover the period between January 1, 1933, and December 31, 1950. An earlier bibliography covering the years through December 31, 1932, was issued as a part of The University of Texas Bulletin 3232.

Many bibliographic sources were used; however, the bibliographies of North American geology published by the United States Geological Survey provided the major number of listings.

Only published papers and maps are included in this bibliography with the exception of several United States Geological Survey open-file and limited-distribution reports. These unpublished reports may be examined at the Bureau of Economic Geology of The University of Texas and at the offices of the United States Geological Survey in Washington, D. C.

Some few papers from trade journals are included, but complete coverage of this type of material was not attempted.

In this bibliography, the indexing is more complete in some phases than in others; but in general, each paper has been indexed from three different points of view: first, from that of the specific subject with which the paper deals, such as Clay, Feldspar, Geophysics, Oil and Gas, Paleontology; second, from that of the geologic system involved, such as Cambrian, Cretaceous, Tertiary; and, third, from that of the geographic locality covered—including specific counties, general and specific areas, such as North-central Texas or Buck Hill area, and physiographic areas and structural features, such as Gulf Coastal Plain, High Plains, Barrilla Mountains, Central Basin Platform.

General-area (for example, Gulf Coastal Plain, West Texas) papers are not indexed under individual counties; likewise, papers indexed under specific counties are not included under general areas.

Although reviews of papers are included as separate entries, they are referred to only under the paper that has been reviewed; the reviewer's name is not included in the subject index.

Many persons had a part in the preparation of this bibliography, and their help is gratefully acknowledged: John T. Lonsdale, Director; Frank A. Herald, Gaylord R. Humberger, Jr., John T. Twining, and other geologists on the staff of the Bureau of Economic Geology gave advice and encouragement; Word P. Burtis, Christian Dullnig, Jr., Leslie W. Giddens, Jr., and Charles Upton assisted in abstracting publications for the subject index; Miss Josephine Casey edited the manuscript; Mrs. Kathryn O. Dickson did the earlier work of compiling many of the bibliographic listings; and Mrs. Mae S. Davila, Mrs. M. Eloise Hill, and Mrs. Judy D. Rose typed the manuscript.

EXPLANATION OF ABBREVIATIONS USED IN THE BIBLIOGRAPHY AND LIST OF PUBLICATIONS

The following list gives both the abbreviated citation and the full name of publications that have been most commonly cited in this bibliography. A few of the less common ones, whose place of publication appears in the citation within the bibliography proper, have not been included here. Publications that include many articles, such as guidebooks, conferences, congresses, symposiums, etc., may be entered under either the editor or the society that sponsored them with full information given there. Papers contained in them may also be cited individually in the abbreviated form, which refers the reader to the editor or author, where full information is given. Such material will not be found in this list.

- Abilene Geol. Soc. Geol. Contr.; Guidebook**—Abilene Geological Society Geological Contributions; Guidebook; Structure study group symposium. Abilene, Texas.
- Acad. Nat. Sci. Philadelphia Notulae Naturae; Proc.**—Academy of Natural Sciences of Philadelphia Notulae Naturae; Proceedings. Philadelphia, Pa.
- Acad. Sci., U.S.S.R., Geol. Ser. Bull.**—Academy of Sciences, Union of Soviet Socialist Republics, Division of Mathematical and Natural Sciences, Geological Series Bulletin.
- Am. Antiquity**—American Antiquity. Menasha, Wis.
- Am. Assoc. Petrol. Geol. Bull.**—American Association of Petroleum Geologists Bulletin. Tulsa, Okla.
- Am. Ceramic Soc. Bull.**—American Ceramic Society Bulletin. Columbus, Ohio.
- Am. Geol. Inst. Rept.**—American Geological Institute Report. Washington, D. C.
- Am. Geophys. Union Trans.**—American Geophysical Union Transactions. Washington, D. C.
- Am. Inst. Chem. Engineers Bull.**—American Institute of Chemical Engineers Bulletin. New York.
- A.I.M.E. Petroleum Technology; Statistics Oil and Gas Devel. and Prod.; Tech. Pub.; Trans.; Year Book**—American Institute of Mining and Metallurgical Engineers Petroleum Technology; Statistics of Oil and Gas Development and Production; Technical Publication; Transactions; Year Book. New York.
- Am. Inst. Physics**—American Institute of Physics [Physics Today]. New York.
- Am. Jour. Botany**—American Journal of Botany. Lancaster, Pa.
- Am. Jour. Sci.**—American Journal of Science. New Haven, Conn.
- Am. Midland Naturalist**—American Midland Naturalist. Notre Dame, Ind.
- Am. Mineralogist**—American Mineralogist. Ann Arbor, Mich.
- Am. Mus. Novitates**—American Museum Novitates (American Museum of Natural History). New York.
- Am. Petrol. Inst. Bull.; Drilling and Production Practice; Rept.**—American Petroleum Institute Bulletin; Drilling and Production Practice; Report. New York.
- Am. Sci. Cong.**—American Scientific Congress (8th). Washington, D. C.
- Am. Water Works Assoc. Jour.**—American Water Works Association Journal. New York.
- Annals and Mag. Nat. History**—Annals and Magazine of Natural History. London.
- Annotated Bibliography of Economic Geology.** Economic Geology Publishing Company. Urbana, Ill.
- Ardmore Geol. Soc.**—Ardmore Geological Society. Ardmore, Okla.
- Beitr. angew. Geophys.**—Beiträge zur angewandten geophysik. Leipzig.
- Bohrtechniker-Zeitung [Bergbau-Zeitung; Montan-Zeitung].** Vienna, Austria.
- Bol. de Informaciones Petroleras**—Boletín de Informaciones Petroleras Yacimientos e Industrias Petrolíferas. Buenos Aires, Argentina.
- Bull. Am. Paleontology**—Bulletins of American Paleontology. Ithaca, N. Y.
- Carnegie Inst. Washington Pub.**—Carnegie Institution of Washington Publications. Washington, D. C.
- Central Texas Archeol. Soc. Bull.**—Central Texas Archeological Society Bulletin. Waco, Texas.
- Chem. Absts.**—Chemical Abstracts, American Chemical Society. Easton, Pa.
- Chem. Metall. Eng.**—Chemical and Metallurgical Engineering [Chemical Engineering]. New York.
- Chimie et industrie.** Société de chimie industrielle. Paris.
- Ciencia.** México, D.F.
- Civil Eng.**—Civil Engineering. Easton, Pa.
- Colo. Mus. Nat. History Proc.**—Colorado Museum of Natural History Proceedings. Denver, Colo.
- Colo. School Mines Quart.**—Colorado School of Mines Quarterly. Golden, Colo.
- Compass**—The Compass. Menasha, Wis.
- Compressed Air Mag.**—Compressed Air Magazine. Phillipsburg, N. J.
- Condor**—The Condor. Berkeley, Calif.

- Contr. Cushman Lab. Foram. Research**—Contributions from the Cushman Laboratory for Foraminiferal Research. Sharon, Mass.
- Copeia**. Ann Arbor, Mich.
- Corpus Christi Geol. Soc.**—Corpus Christi Geological Society. Corpus Christi, Texas.
- Cushman Found. Foram. Research Contr.**—Cushman Foundation for Foraminiferal Research Contributions. Washington, D. C.
- Cushman Lab. Foram. Research Special Pub.**—Cushman Laboratory for Foraminiferal Research Special Publication. Sharon, Mass.
- Dallas Digest**. [Joint annual meeting of the American Association of Petroleum Geologists, Society of Economic Paleontologists and Mineralogists, and Society of Exploration Geophysicists, March 21, 22, 23, 1944, sponsored by the Dallas Petroleum Geologists.] Dallas, Texas.
- Denison Univ. Bull., Sci. Lab. Jour.**—Denison University Bulletin, Journal of the Scientific Laboratories. Granville, Ohio.
- Drilling and Production Practice**. See Am. Petrol. Inst.
- Earth Sci. Digest**—Earth Science Digest [Earth Science, Chicago, Ill.]. Revere, Mass.
- Earthquake Notes**. Washington, D. C.
- East Texas Geol. Soc.**—East Texas Geological Society. Tyler, Texas.
- Ecology**. Brooklyn, N. Y.
- Econ. Geography**—Economic Geography. Worcester, Mass.
- Econ. Geology**—Economic Geology. Lancaster, Pa.
- Eng. Min. Jour.**—Engineering and Mining Journal. New York.
- Evolution**. Lancaster, Pa.
- Explosives Engineer**—The Explosives Engineer. Wilmington, Del.
- Farol**. Buenos Aires, Argentina.
- Field and Lab.**—Field and Laboratory. Southern Methodist University. Dallas, Texas.
- Flying Red Horse**. Magnolia Petroleum Company. New York.
- Fondren Sci. Ser.**—Fondren Science Series. Southern Methodist University. Dallas, Texas.
- Fort Worth Geol. Soc.**—Fort Worth Geological Society. Fort Worth, Texas.
- Fuel**—Fuel in Science and Practice. London.
- Geochimica et Cosmochimica Acta**. London.
- Geog. Jour.**—Geographical Journal. London.
- Geog. Rev.**—Geographical Review. New York.
- Geol. Mag.**—Geological Magazine. London.
- Geol. Soc. America Bull.; Guidebook; Mem.; Proc.; Special Paper**—Geological Society of America Bulletin; Guidebook; Memoir; Proceedings; Special Paper. New York.
- Geologie der Erde**. Gebrüder Borntraeger, Berlin.
- Geol. Soc. China Bull.**—Geological Society of China Bulletin. Peking.
- Geology of Natural Gas**. American Association of Petroleum Geologists. Tulsa, Okla.
- Geophysics**. Austin, Texas.
- Geophys. Case Histories**—Geophysical Case Histories. Society of Exploration Geophysicists. Menasha, Wis.
- Gulf Coast Oil Fields**. American Association of Petroleum Geologists, Tulsa, Okla.
- Harvard Coll., Mus. Comp. Zoology Bull.**—Harvard College, Museum of Comparative Zoology Bulletin. Cambridge, Mass.
- Harvard Univ. Bot. Mus. Leaflet**—Harvard University Botanical Museum Leaflets. Cambridge, Mass.
- Houston Geol. Soc.**—Houston Geological Society. Houston, Texas.
- Ill. State Geol. Survey Rept. Inv.**—Illinois State Geological Survey Report of Investigations. Urbana, Ill.
- Ind. Acad. Sci. Proc.**—Indiana Academy of Science Proceedings. Indianapolis, Ind.
- Indus. Eng. Chemistry**—Industrial and Engineering Chemistry. Easton, Pa.
- Inst. Petroleum Jour.**—Journal of the Institution of Petroleum Technologists [vols. 1-24]; Journal of the Institute of Petroleum [succeeding volumes]. London.
- Internat. Geol. Cong. Rept.; Guidebook**—International Geological Congress Report, Guidebook; 16th, Washington, D. C.; 17th, Moscow; 18th, London.
- Iowa Acad. Sci. Proc.**—Iowa Academy of Science Proceedings. Des Moines, Iowa.
- Iowa Univ. Pub. Ser. on Aims and Progress of Research**—Iowa University Publications, Series on Aims and Progress of Research. Iowa City, Iowa.
- Jour. Coast and Geodetic Survey**—Journal of the Coast and Geodetic Survey. Washington, D. C.
- Jour. Geology**—Journal of Geology. Chicago, Ill.
- Jour. Geomorphology**—Journal of Geomorphology. New York.
- Jour. Mammalogy**—Journal of Mammalogy. Baltimore, Md.
- Jour. Paleontology**—Journal of Paleontology. Menasha, Wis.
- Jour. Sed. Petrology**—Journal of Sedimentary Petrology. Menasha, Wis.
- Jour. Petroleum Technology**—Journal of Petroleum Technology. American Institute of Mining and Metallurgical Engineers. Dallas, Texas.
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- Le genie civil**. Paris.
- Manufacturers' Rec.**—Manufacturers' Record. Baltimore, Md.
- Meteorit. Soc. Contr.**—Meteoritical Society Contributions [Society for Research on Meteorites]. Los Angeles, Calif.
- Micropaleontologist**—The Micropaleontologist. New York.
- Mineralog. Absts.**—Mineralogical Abstracts. The Mineralogical Society. London.
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- Mining Rev.**—Mining Review. Salt Lake City, Utah.
- Mo. Acad. Sci. Proc.**—Missouri Academy of Science Proceedings. St. Louis, Mo.
- Monthly Weather Rev.**—Monthly Weather Review. U. S. Department of Commerce, Weather Bureau. Washington, D. C.
- Mus. royal histoire nat. Belgique Mém.**—Musée royal d'histoire naturelle de Belgique Mémoires. Bruxelles.
- Natl. Oil Scouts and Landmen's Assoc. Yearb.**—National Oil Scouts and Landmen's Association Yearbook. Austin, Texas.
- Natl. Research Council Bull.; Div. Geology and Geography Ann. Rept.**—National Research Council Bulletin; Division of Geology and Geography Annual Report. Washington, D. C.
- Natl. Res. Plan. Board**—National Resources Planning Board. The Pecos River Joint Investigation. Washington, D. C.
- Natl. Speleol. Soc. Bull.**—National Speleological Society Bulletin. Washington, D. C.
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- Nautilus**—The Nautilus. Philadelphia, Pa.
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- New England Zool. Club Proc.**—New England Zoological Club Proceedings. Cambridge, Mass.
- N. Y. Acad. Sci. Trans.**—New York Academy of Sciences Transactions. New York.
- Notulae Naturae**. See Acad. Nat. Sci. Philadelphia.
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- Oil and Gas Jour.**—The Oil and Gas Journal. Tulsa, Okla.
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- Royal Soc. South Australia Trans.**—Royal Society of South Australia Transactions. Adelaide.
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- Soc. Géol. France Mém.**—Société géologique de France Mémoires. Paris.
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- Texas Agr. Mech. Coll. Bull.**—Agricultural and Mechanical College of Texas Bulletin. College Station, Texas.
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- Texas Eng. Expt. Sta. Bull.; Research Rept.**—Texas Engineering Experiment Station Bulletin; Research Report. Agricultural and Mechanical College of Texas. College Station, Texas.
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- Texas Jour. Sci.**—Texas Journal of Science [Texas Academy of Science]. San Marcos, Texas.
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- U. S. Bur. Reclamation Petrog. Lab. Rept.**—United States Bureau of Reclamation Petrographic Laboratory Report. Denver, Colo.
- U. S. Coast and Geod. Survey Special Pub.**—United States Coast and Geodetic Survey Special Publication. Washington, D. C.
- U. S. ——— Cong., ——— Session, House Rep., House Doc. ———; Sen. Res., Sen. Special Comm.**—United States . . . Congress, . . . Session, House of Representatives, House Document; Senate Resolution, Senate Special Committee. Washington, D. C.
- U. S. Dept. Agr. Misc. Pub.; Bur. Chemistry and Soils Ser.**—United States Department of Agriculture Miscellaneous Publication; Bureau of Chemistry and Soils Series. Washington, D. C. (See also U. S. Soil Conservation Service.)
- U. S. Forest Service, Possibilities of shelterbelt planting in the Plains region**—The Lake States Forest Experiment Station. Washington, D. C.
- U. S. Geol. Survey Bull.; Chart; Circ.; Map; Oil and Gas Inv. Prelim. Map; Open-File Rept.; Prelim. Chart; Prelim. Map; Prelim. Rept.; Prof. Paper; Strategic Minerals Inv.; Water-Supply Paper**—United States Geological Survey Bulletin; Chart; Circular; Map; Oil and Gas Investigations Preliminary Map; Open-File Report; Preliminary Chart; Preliminary Map; Preliminary Report; Professional Paper; Strategic Minerals Investigation; Water-Supply Paper. Washington, D. C.
- U. S. Hydrographic Office**—United States Hydrographic Office Bottom Sediment Charts. Washington, D. C.
- U. S. Libr. Cong.**—United States Library of Congress Petroleum Industry Index. Washington, D. C.

- U. S. Soil Conserv. Service Erosion Survey Hydrologic Bull.; Sedimentation Bull.; Sedimentation Ser.; Soil Survey; Tech. Pub.**—United States Soil Conservation Service Erosion Survey Hydrologic Bulletin; Sedimentation Bulletin; Sedimentation Series; Soil Survey; Technical Publication. Washington, D. C.
- Univ. Calif., Dept. Geol. Sci. Bull.**—University of California, Department of Geological Sciences Bulletin. Berkeley, Calif.
- Univ. Colo. Studies**—University of Colorado Studies. Boulder, Colo.
- Univ. Ill., Abst. of Thesis**—University of Illinois, Abstract of Theses, Urbana, Ill.
- Univ. Kans. Paleont. Contr.**—University of Kansas Paleontological Contributions. Topeka and Lawrence, Kans.
- Univ. Kans. Pub., State Geol. Survey Kans. Bull.; Oil and Gas Inv.**—University of Kansas Publications, State Geological Survey Bulletin; Oil and Gas Investigations. Lawrence, Kans.
- Univ. Mich. Mus. Paleontology Contr.**—University of Michigan, Museum of Paleontology Contributions. Ann Arbor, Mich.
- Univ. Mo., School Mines and Metallurgy Bull.; Tech. Ser.**—University of Missouri, School of Mines and Metallurgy Bulletin; Technical Series. Rolla, Mo.
- Univ. Nebr. State Mus. Bull.**—University of Nebraska State Museum Bulletin. Lincoln, Nebr.
- Univ. Okla. Bull., new ser.**—University of Oklahoma Bulletin, new series. Norman, Okla.
- Univ. Texas Bull.; Pub.**—The University of Texas Bulletin; Publication. Austin, Texas.
- Univ. Texas, Bur. Econ. Geology Cards; Map; Min. Res. Circ.; Min. Res. Survey Circ.; Rept. Inv.**—The University of Texas, Bureau of Economic Geology Cards [Catalog of North American Early Tertiary Fossils, etc.]; Map; Mineral Resource Circular; Mineral Resource Survey Circular; Report of Investigations. Austin, Texas.
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- Wash. Acad. Sci. Jour.**—Washington Academy of Sciences Journal. Washington, D. C.
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ADDENDUM

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CORRECTIONS

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LIST OF THESES AND DISSERTATIONS DEALING WITH TEXAS GEOLOGY

(A number of the following theses and dissertations have been published under either identical or similar title and either as complete papers or as abstracts. These works are included in the preceding bibliography and are indicated in this list by asterisk.)

LIBRARY OF AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS

Master's theses:

- ***Beckman, Michael William.** The stratigraphy and age of the Seguin formation of central Texas, 1941.
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Braunite: Hewett, 1937.

Brazoria County.

Aragonite: Hanna, 1938.

Cross section: Deussen, 1937.

Geochemistry: Rosaire, 1938.

Geomorphology, salt domes: Ritz, 1936.

Geophysics: Barton, D. C., 1936, 1944, 1944a; Campbell, F. F., 1941; Eby, 1935; Nettleton, 1943; Rosaire, 1938; Swan, 1942.

Ground water: Follett, 1947; Foster, M. D., 1939; Guyton, 1945; Sundstrom, 1948; Texas State Bd. Water Engrs; White, W. N., 1939.

Limestone, on salt dome: Hurlbut, 1946.

Map, geologic: Foster, M. D., 1939.

Oil and gas. *See* Allen, Angleton, Bailey's Prairie, Blue Lake, Chenango, Chocolate Bayou, Damon Mound, Danbury, Hall's Bayou, Hastings, Hoskins Mound, Liverpool, Lochridge, Manvel, Old Ocean, Pledger, Rowan, Sandy Point, Stratton Ridge, and West Columbia fields under Oil and gas.

Paleontology: Barton, H. M., 1948; Cushman, 1944a; Vanderpool, H. C., 1933a.

Recent shoreline process: Curry, 1940.

Salt domes. *See* Allen, Bryan Mound, Clemens, Damon Mound, Danbury, Hoskins Mound, Nash, Stratton Ridge, and West Columbia under Salt domes.

Sulfur: Baker, C. L., 1935; Haynes, 1942; Marx, 1936; Sellards, 1948.

Well records: Follett, 1947; Sundstrom, 1948; Texas State Bd. Water Engrs.; White, W. N., 1939.

Brazos County.

Faults: Renick, 1936.

Geology, general: Mathews, A. A. L., 1950.

Ground water: Barnes, B. A., 1944; Sundstrom, 1948; Turner, S. F., 1938.

Gypsum: Broughton, 1934.

Maps, geologic: Mathews, A. A. L., 1950; Peterson, R. L., 1946; Renick, 1936.

Oil and gas. *See* Millican field under Oil and gas.

Paleontology: Hesse, 1942; Palmer, 1944; Peterson, R. L., 1946; Stenzel, 1934, 1943a, 1943b.

Salt domes. *See* Ferguson's Crossing and Millican domes under Salt domes.

Selenite. *See* Gypsum above.

Stratigraphy: Renick, 1936; Stenzel, 1936b.

Brazos County—Continued

Volcanic ash: Schoch, 1938a.

Well records: Barnes, B. A., 1944; Rinehart, 1942; Sundstrom, 1948; Turner, S. F., 1938.

Brazos River. *See* Streams.

Brazos River sandstone. *See* Pennsylvanian strata.

Brazos River syncline, Austin, Waller, and Washington counties: Renick, 1936.

Breccia pipes, Terlingua district: Thompson, G. A., 1950.

Breckenridge limestone. *See* Pennsylvanian strata.

Brewster County. *See also* Big Bend area; Bird lead-silver mine; Buck Hill area; Burro Mesa; Carmen Range; Chisos Mountains; Christmas Mountains; Del Norte Range; Glass Mountains; Hovey channel; Marathon region; Mariscal Mountain; Mesa de Anguila; Mount Ord Range; Santa Helena Canyon; Santiago Peak area; Santiago Range; San Vicente Range; Solitario area; Terlingua arch; Terlingua district; Viviana quicksilver mine.

Analcite, foraminiferal shale: Milton, 1936.

Barite: Evans, G. L., 1946a.

Calcite: Brock, 1934; Duncan, 1944.

Caves: Jackson, 1948; Koch, 1948.

Clay: Anonymous, 1934; Schoch, 1938a.

Davis Mountains. *See also* Davis Mountains.

Albritton, 1939; Baker, C. L., 1935a.

Fault (Terlingua): Baker, C. L., 1935a.

Field trips: Goldich, 1948, 1948a, 1949a; Graves, 1949; Maxwell, R. A., 1949; West Texas Geol. Soc., 1940a, 1941b, 1946a.

Geology, general: West Texas Geol. Soc., 1946a.

Glacial beds: Carney, 1935.

Ground water: Broadhurst, 1949.

Historical geology: Albritton, 1939.

Igneous rocks. *See also* Igneous rocks. Bacon, 1941; Eifler, 1943; Lonsdale, 1940a, 1949.

Lead: Redfield, 1946a.

Maps, geologic: Albritton, 1939; Darton, 1933; Eifler, 1943; Goldich, 1948, 1949, 1949a; Graves, 1949; Jones, C. T., 1938; King, P. B., 1938b; Lonsdale, 1940a; Maxwell, R. A., 1949; Ross, 1941; Sellards, 1933a, 1933b; West Texas Geol. Soc., 1941b; Yates, 1942, 1943, 1943a, 1944, 1944a.

Mercury: Baker, C. L., 1935b; Duncan, 1937; Evans, A. M., 1947; Johnson, J. H., 1943, 1946a; Mosier, 1944; Ross, 1934, 1935, 1935a, 1941, 1942; Smith, W., 1944; Von Bernewitz, 1937; Yates, 1942, 1943, 1943a, 1944, 1944a, 1949.

Meteorites: Barnes, V. E., 1940a; Lonsdale, 1947; Monnig, 1946, 1946a.

Mineral localities: Miles, 1941.

Novaculite: Baker, C. L., 1935c.

Paleontology: Aberdeen, 1940; Bridge, 1940; Cooper, G. A., 1941, 1946a; Eley, 1938; Ellison, 1941a; Fletcher, 1933; Graves, 1941; Henbest, 1936; Huang, 1936; Ikins, 1940; McNulty, 1941a; Miller, A. K., 1945, 1945a; Milton, 1936; Moore, R. C., 1940b; Sohn, 1950; Turner, F. E., 1940.

Reefs: Johnson, J. H., 1944.

Silver: Redfield, 1946a.

Soil survey: Carter, W. T., 1934.

Sphenolith, Terlingua district: Ross, 1937.

Well records: Broadhurst, 1949.

Brewster formation. *See* Cambrian strata.

Brick clay. *See* Clay.

Bridwell formation. *See* Tertiary strata and rocks.

Briggs formation. *See* Permian strata.

Brines: Baker, C. L., 1935b; De Sitter, 1947; Jessen,

Brines—Continued

1944; Kinney, 1948e; Rolshausen, 1943; Sellards, 1946b.

Briscoe County.

Clay, filtering: Evans, G. L., 1942a.

Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.

Meteorites: Barnes, V. E., 1940a.

Oil and gas: Ingalls, 1950.

Paleontology: Johnston, C. S., 1937b, 1937d.

Well records: Texas State Bd. Water Engrs.

Brister Bluff lentil. *See* Pennsylvanian strata.

Britton clay. *See* Cretaceous strata.

Bromine (from sea water): Sellards, 1946b.

Brook lentil. *See* Pennsylvanian strata.

Brooks County.

Geophysics: Woolley, 1946.

Ground water: Broadhurst, 1950; Texas State Bd. Water Engrs.

Gypsum: Moyer, 1939.

Map, geologic: Livingston, 1936a.

Oil and gas. *See* La Gloria field under Oil and gas.

Well records: Broadhurst, 1950; Texas State Bd. Water Engrs.

Brown coal. *See* Lignite.

Brown County.

Barite: Evans, G. L., 1946a.

Celestite: Dennis, 1947; Evans, G. L., 1942, 1946b; Havins, 1943; Stenzel, 1948f.

Clay, ceramic: Pence, 1949a; Plummer, F. B., 1949.

Field trips: Abilene Geol. Soc., 1950; Ardmore Geol. Soc., 1936.

Ground water: Sundstrom, 1949; Texas State Bd. Water Engrs.

Maps, geologic: Abilene Geol. Soc., 1950; Nickell, C. O., 1938; Plummer, F. B., 1949.

Meteorite: Barnes, V. E., 1940a.

Oil and gas. *See* Cross Cut-Blake district and Smith-Ellis field under Oil and gas.

Paleontology: King, R. H., 1940; Moore, R. C., 1940b; Newell, 1938a.

Soil survey: Templin, 1948.

Stratigraphy: Nickell, C. O., 1938.

Well records: Texas State Bd. Water Engrs.

"Brown Lime". *See* Permian strata.

Brownstown marl. *See* Cretaceous strata.

Brownwood shale. *See* Pennsylvania strata.

Brushy Canyon formation. *See* Permian strata.

Bryan sandstone. *See* Tertiary strata and rocks.

Bryozoa. *See* Paleontology.

Bryson sand. *See* Pennsylvanian strata.

Bucatunna clay. *See* Tertiary strata and rocks.

Buchanan massif, Burnet and Llano counties: Koppel, 1940.

Buck Hill area, Brewster County: Elms, 1938; Goldich, 1949, 1949a.

Buck Hill volcanic series. *See* Tertiary strata and rocks.

Buckner formation. *See* Jurassic strata.

Buda limestone. *See* Cretaceous strata.

Buffalo Bayou. *See* Streams.

Building stone. *See also* Igneous rocks; Limestone; Metamorphic rocks. Baker, C. L., 1935c; Baldwin, 1941; Barnes, V. E., 1936b, 1939a, 1940g, 1944, 1947a; Cloud, 1948b; Criswell, 1942; Downey, 1941; Harrington, 1939; Harris, G. D., 1941; King, P. B., 1948; Nickell, C. O., 1939, 1941; Plummer, F. B., 1936; Ramsey, 1936; Sedlmayer, 1939; Sellards, 1940b, 1946b; Stenzel, 1948k.

Crushed quartz: Chelf, 1941c.

Building stone—Continued

- Flagstone: Barnes, V. E., 1944.
Reguïenia "marble": Nickell, C. O. 1941.
 Llanite: Barnes, V. E., 1947a.

Bunger limestone. *See* Pennsylvanian strata.

Burditt marl. *See* Cretaceous strata.

Burkville beds. *See* Tertiary strata and rocks.

Burleson County.

- Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.
 Map, geologic: Renick, 1936.

Oil and gas: *See* Chriesman field under Oil and gas.

Paleontology: Kellogg, 1936; Palmer, 1944; Stenzel, 1934, 1936b, 1943, 1943b, 1943c, 1945a.

Stratigraphy: Stenzel, 1936b.

Well records. *See also* Ground water, above. Rinehart, 1942.

Burnet County.

Asphalt: Barnes, V. E., 1936c.

Bituminous sand: Riddick, 1936.

Building stone: Barnes, V. E., 1936b, 1939a, 1947a.

Caves: Craun, 1948; Law, 1933; White, P. J., 1948a.

Copper: Barnes, V. E., 1936, 1936a.

Dolomite: Weitz, 1942.

Field trip: Shreveport Geol. Soc., 1949.

Fluorite: Barnes, V. E., 1943b.

Granite massifs: Keppel, 1940.

Graphite: Baker, C. L., 1935c; Barnes, V. E., 1940i.

Ground water: Sundstrom, 1949.

Maps, geologic: Abilene Geol. Soc., 1950; Barnes, V. E., 1940h, 1946c, 1947a, 1948; Cloud, 1948b; Damon, 1946; Plummer, F. B., 1945; Shreveport Geol. Soc., 1949.

Paleontology: Knight, 1947; Moore, R. C., 1940c, 1942; Thompson, M. L., 1942.

Rock wool (siliceous limestone): Plummer, F. B., 1944a.

Silver: Barnes, V. E., 1936.

Spiculate: Damon, 1946.

Stratigraphy: Feray, 1949; Ikins, 1949; Plummer, F. B., 1950; Thompson, S. A., 1935.

Well records: Sundstrom, 1949.

Zinc: Baker, C. L., 1935b.

Burning clay. *See* Clay.

Burro Mesa, Brewster County: Baker, C. L., 1935a.

Burrows. *See* Paleontology, tracks, trails, burrows, borings.

Butcherknife basalt. *See* Tertiary strata and rocks.

Butler clay. *See* Tertiary strata and rocks.

Byram marl. *See* Tertiary strata and rocks.

Caballos novaculite. *See* Devonian strata.

Caddell clay. *See* Tertiary strata and rocks.

Caddo conglomerate. *See* Pennsylvanian strata.

Caddo Creek formation. *See* Pennsylvanian strata.

Caddo lime. *See* Pennsylvanian strata.

Caddo Pool formation. *See* Pennsylvanian strata.

Calamity formation. *See* Quaternary strata and deposits.

Calcite: Brock, 1934; Duncan, 1944.

Calcium chloride: Kinney, 1948e.

Caldwell County.

Geophysics: Bush, 1950.

Ground water: Broadhurst, 1950; Rasmussen, 1947.

Igneous rocks: Rasmussen, 1947.

Maps, geologic: Darton, 1933; Rasmussen, 1947; Stephenson, L. W., 1941a.

Caldwell County—Continued

Metamorphic rocks: Rasmussen, 1947.

Oil and gas. *See also* Luling and Salt Flat fields under Oil and gas. Ley, 1935a; Sellards, 1938d.

Oil field waters: Barnes, V. E., 1946d.

Paleontology: Leriche, 1942; Palmer, 1944; Stenzel, 1943b.

Stratigraphy: Gardner, J. A., 1935.

Well records. *See also* Ground water, above. Bush, 1950.

Caldwell Knob member. *See* Tertiary strata and rocks.

Calhoun County.

Ground water: Broadhurst, 1950; Texas State Bd. Water Engrs.

Oil and gas. *See* Heyser field under Oil and gas. Well records: Texas State Bd. Water Engrs.

Caliche: Barnes, V. E., 1944; Cloud, 1948b; Criswell, 1942; Price, W. A., 1933a, 1940, 1940a, 1941a, 1949a; Sayre, 1936a, 1945; Sodlmayer, 1939; Sellards, 1946b; Sidwell, 1943; Stenzel, 1948j; Weeks, 1933.

Callahan County.

Anthropology: Ray, 1948.

Field trip: Scott, G., 1941.

Ground water: Sundstrom, 1949; Texas State Bd. Water Engrs.

Map, geologic: Plummer, F. B., 1937d.

Oil and gas. *See also* Baum Ellenburger and Oplin fields under Oil and gas. Tucker, M., 1938a.

Paleontology: Moore, R. C., 1940b.

Sedimentation: Ray, 1948.

Well records. *See* Ground water, above.

Calliham sand. *See* Tertiary strata and rocks.

Calvert Bluff clay beds. *See* Tertiary strata and rocks. Cambrian.

Axis, maximum deposition: Barten, J. M., 1945.

Concretion-like masses: Anonymous, 1934.

Correlation: Bridge, 1937; Dott, 1941; Shimer, 1934.

Distribution: Sellards, 1938c.

Paleogeography. *See* Paleogeography.

Paleogeology. *See* Paleogeology.

Paleontology. *See* Paleontology and *also* Strata, below.

Reefs. *See* Reefs.

Strata.

Bliss sandstone.

Age: Wheeler, R. R., 1942.

Stratigraphy: Nelson, L. A., 1940; Sellards, 1933b.

Brewster formation.

Nomenclature: King, P. B., 1938b.

Paleontology: King, P. B., 1938b.

Cap Mountain formation.

Building stone: Barnes, V. E., 1936b.

Correlation: Bridge, 1937.

Galena: Baker, C. L., 1933a; Howell, B. F., 1938.

Paleontology: Bridge, 1937; Lochman, 1938.

Stratigraphy: Bridge, 1947; Cloud, 1946, 1948b; Sellards, 1933b.

Dagger Flat sandstone.

Paleontology: King, P. B., 1938b.

Petrography: King, P. B., 1938b.

Stratigraphy: Eifler, 1943; King, P. B., 1938b; Sellards, 1933b.

Ellenburger limestone, stratigraphy: Sellards, 1933b.

Erna sand, analyses: Plummer, F. B., 1942b.

Cambrian—Continued

Strata—Continued

Fort Sill formation, stratigraphy: Sellards, 1933b.

General discussion and stratigraphy: Bridge, 1942; Dott, 1941; Plummer, F. B., 1939; Warner, 1939.

Hickory sandstone.

Correlation: Bridge, 1937.

Dreikanter in: Barnes, V. E., 1940f.

Ground water: Plummer, F. B., 1946.

Paleontology: Bridge, 1937.

Stratigraphy: Bridge, 1947; Cloud, 1946, 1948b; Sellards, 1933b.

Lion Mountain sandstone.

Analysis: Barnes, V. E., 1947a.

Correlation: Bridge, 1937.

Stratigraphy: Bridge, 1947; Cloud, 1946, 1948b.

Lanoria quartzite, age: Keyes, 1941a, 1941b.

Morgan Creek limestone.

Dolomite analysis: Barnes, V. E., 1943a.

Paleontology: Bridge, 1947; Cloud, 1948b; Wilson, J. L., 1949, 1950.

Stratigraphy: Bridge, 1947; Cloud, 1948b; Wilson, J. L., 1949.

Pedernales dolomite.

Dolomite analysis: Barnes, V. E., 1943a.

Paleontology: Bridge, 1947; Cloud, 1946; Knight, 1947.

Petrography: Cloud, 1948b.

Stratigraphy: Bridge, 1947; Cloud, 1946, 1948b.

Point Peak shale.

Paleontology: Bridge, 1947; Cloud, 1946.

Petrography: Cloud, 1948b.

Stratigraphy: Bridge, 1947; Cloud, 1948b.

Riley formation.

Building stone: Barnes, V. E., 1947a.

Stratigraphy: Bridge, 1947; Cloud, 1946, 1948b.

San Saba limestone.

Aquifer: Cloud, 1948b.

Paleontology: Bridge, 1947.

Petrography: Cloud, 1948b.

Stratigraphy: Bridge, 1947; Cloud, 1946, 1948b.

Signal Mountain formation, stratigraphy: Sellards, 1933b.

Van Horn sandstone, stratigraphy: King, P. B., 1940; Sellards, 1933b.

Welge sandstone.

Paleontology: Wilson, J. L., 1949, 1950a.

Stratigraphy: Bridge, 1947; Cloud, 1946, 1948b; Wilson, J. L., 1949.

Wilberns formation.

Building stone: Barnes, V. E., 1936b, 1947a.

Correlation: Bridge, 1937.

Paleontology: Bridge, 1937, 1947; Cloud, 1948b; Decker, C. E., 1944a, 1945; Wilson, J. L., 1948, 1949.

Stratigraphy: Bridge, 1947; Cloud, 1946, 1948b; Sellards, 1933b.

Subdivisions: Crowley, 1945a.

Unconformities: Arick, 1936.

Underground position: Sellards, 1933b.

Cameron County.

Field trip: South Texas Geol. Soc., 1939.

Ground water: Broadhurst, 1950.

Well records. *See* Ground water, above.

Campagrande formation. *See* Cretaceous strata.

Camp Colorado limestone. *See* Pennsylvanian strata; Permian strata.

Camp County.

Ground water: Sundstrom, 1948.

Map, geologic: Broadhurst, 1950a; Texas State Bd. Water Engrs.

Mounds: Rich, 1934.

Oil and gas. *See* Pittsburg field under Oil and gas.

Well records: Rinehart, 1942; Sundstrom, 1948.

Camp Creek shale. *See* Pennsylvanian strata; Permian strata.

Camp Springs conglomerate. *See* Triassic strata.

Canadian River. *See* Streams.

Canidae. *See* Paleontology, Carnivora.

Cannel coal. *See* Coal.

Cannon Ball zone. *See* Cretaceous strata.

Canutillo formation. *See* Devonian strata.

Canyon group. *See* Pennsylvanian strata.

Capitan limestone. *See* Permian strata.

Capitol terrace deposit. *See* Quaternary strata and deposits.

Cap Mountain formation. *See* Cambrian strata.

Capps limestone. *See* Pennsylvanian strata.

Carbon, activated: Evans, G. L., 1944a; Sellards, 1946b.

Carbon black: Miller, R. L., 1948; Sellards, 1940b, 1946b.

Carboniferous. *See also* Mississippian; Pennsylvanian; Permian.

Bendian: Harlton, 1934.

Correlation: Plummer, F. B., 1937, 1937a, 1938a.

Nomenclature: Cheney, 1945.

Orogeny: Van der Gracht, 1933.

Paleontology. *See* Paleontology.

Reef-like deposits: Plummer, F. B., 1938b.

Stratigraphy: Plummer, F. B., 1950.

Carlos sandstone. *See* Tertiary strata and rocks.

Carlsbad limestone. *See* Permian strata.

Carmen Range (Sierra del Carmen), Brewster County: Baker, C. L., 1935a.

Carnallite. *See* Evaporites; Potash.

Carnivora. *See* Paleontology.

Carrizo Mountain schist. *See* Precambrian rocks.

Carrizo Mountains, Culberson and Hudspeth counties: Baker, C. L., 1935a.

Carrizo sand. *See* Tertiary strata and rocks.

Carson County.

Basement rocks: Patton, 1945a, 1947.

Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.

Oil and gas. *See* Panhandle fields under Oil and gas.

Well records. *See also* Ground water, above. Patton, 1945a, 1947.

Cartography.

Aerial photography.

Barbers Hill area, Chambers County: Barton, D. C., 1936b.

Guadalupe Mountains, Culberson County: Butcher, 1938.

Gulf Coastal Plain: Atkinson, J., 1933; Desjardins, 1950; Sellards, 1935a.

Interpretation: Barton, D. C., 1936b.

Elevations. *See* Elevations.

Triangulation data: Mitchell, 1935.

Cascade Cavern. *See* Caves and caverns.

Cass County.

Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.

Cass County—Continued

Iron ore: Anderson, G. H., 1942; Baker, C. L., 1935b; Eckel, 1938.

Maps, geologic: Broadhurst, 1950a; Eckel, 1938. Mounds: Rich, 1934.

Oil and gas. *See* Rodessa field under Oil and gas. Soils: Beck, 1937.

Well records. *See* Ground water, above.

Cassiterite. *See* Tin minerals.

Castile formation. *See* Permian strata.

Castro County.

Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.

Meteorites: Barnes, V. E., 1940a.

Well records. *See* Ground water, above.

Catahoula formation. *See* Tertiary strata and rocks.

Caves and caverns. *See also* Andrews, Bell, Bexar, Blanco, Brewster, Burnet, Comal, Culberson, Edwards, El Paso, Gillespie, Hays, Hudspeth, Jeff Davis, Kendall, Kerr, Kimble, Kinney, Llano, Mason, Medina, Pecos, Presidio, Real, Reeves, San Saba, Terrell, Travis, Uvalde, Val Verde, and Williams counties.

Austin Caverns, Travis County: Anonymous, 1934; Craun, 1948; White, P. J., 1948a.

Big Bend area, Brewster County: Koch, 1948.

Cascade Cavern, Kendall County: Anonymous, 1934; Craun, 1948; Nicholson, 1948.

Central Texas: Anonymous, 1934; Craun, 1948; Law, 1933; Nicholson, 1948; Uhlenhuth, 1948; White, P. J., 1948, 1948a.

Devil's Sinkhole, Edwards County: White, P. J., 1948, 1948a.

Dollarhide field, Andrews County: Stormont, 1949.

Ellenburger limestone: Law, 1933; Oil and Gas Jour., 1949.

Future discoveries: Baker, C. L., 1948.

Gorman formation: Cloud, 1948b.

Guadalupe Mountain area: Ayer, 1936; King, P. B., 1948.

Hueco Mountains, El Paso County: Cosgrove, 1948; Jackson, 1948.

Longhorn Cavern, Burnet County: Craun, 1948; Law, 1933.

Treasure Cave, San Saba County: Anonymous, 1934.

Underground stream, Hays County: Uhlenhuth, 1948.

West Texas: Anonymous, 1934; Ayer, 1936; Cosgrove, 1948; Jackson, 1948; King, P. B., 1948; Koch, 1948; Stormont, 1949; White, P. J., 1948b.

Williams Cave, Culberson County: Ayer, 1936.

Wonder Cave, Hays County: Anonymous, 1934; Craun, 1948.

Cedar Park member. *See* Cretaceous strata.

Cedarton shale. *See* Pennsylvanian strata.

Cedartop dolomite. *See* Permian strata.

Celestite: Adkins, 1933a; Baker, C. L., 1935b; Dennis, 1947; Evans, G. L., 1941a, 1942, 1946b; Harness, 1942; Havins, 1948; Sellards, 1940b, 1946b; Stenzel, 1948f.

Cement and lime: Baker, C. L., 1935c; Barnes, V. E., 1944; Kinney, 1948b; Sellards, 1940b, 1946b; Whitcomb, 1939a.

Cenozoic. *See also* Tertiary; Quaternary.

Bibliography: Murray, G. E., 1949a.

Correlation: Blanpied, 1939; Philpott, 1949.

Deformation: Baker, C. L., 1935a; Sellards, 1935c.

Field trip: West Texas Geol. Soc., 1949b.

Cenozoic—Continued

General discussion (deposits and rocks): Albritton, 1938; Colle, 1950; Eifler, 1943; Dallas Petroleum Geologists, 1941; Huffington, 1943; Richards, A., 1948; Smith, J. F., 1940a; Weeks, 1941.

Oil and gas. *See* Oil and gas, stratigraphic position.

Paleontology. *See* Paleontology.

Sedimentary facies: Lowman, 1948.

Sediments: Colle, 1950.

Sedimentary volumes: Murray, G. E., 1950a.

Central Basin Platform, west Texas. *See also* comprising counties.

Columnar section, pre-Permian: Barton, J. M., 1946.

Composite log: Ingalls, 1950a.

Cross sections: Thompson, W. C., 1937; West Texas Geol. Soc., 1949.

Precambrian, underground position: Sellards, 1933b.

Stratigraphy: Cox, 1940; King, P. B., 1942; Lewis, F. E., 1941; West Texas Geol. Soc., 1949.

Structure: Sellards, 1935c.

Central Mineral region. *See also* comprising counties;

Central Texas; Llano uplift.

Cross section: Thompson, W. C., 1937.

Feldspar: Barnes, V. E., 1946b; Redfield, 1942a.

Galena: Baker, C. L., 1933a; Howell, B. F., 1938; Tarr, W. A., 1933.

Iron ore: Stenzel, 1944e.

Minerals: Anonymous, 1934; Moore, J. R., 1947.

Paleontology: Hass, 1947; Wilson, J. L., 1948, 1950.

Pegmatites: Landes, 1933, 1935.

Serpentine: Barnes, V. E., 1946a.

Soapstone: Barnes, V. E., 1946a.

Stratigraphy: Cloud, 1948b.

Central Texas. *See also* comprising counties; Central Mineral region; Llano uplift; San Marcos arch.

Anthropology: Pearce, 1936; Sayles, 1935; Sellards, 1935.

Building stones: Barnes, V. E., 1939a, 1947a.

Caliche: Cloud, 1948b.

Caves. *See* Caves and caverns.

Celestite: Havins, 1948.

Dreikanter, Hickory standstone: Barnes, V. E., 1940f.

Faults and fractures. *See also* Faults and fractures. Bryan, F., 1936; Melton, 1935a.

Field trips: Abilene Geol. Soc., 1946, 1950; Ardmore Geol. Soc., 1936, 1937; Bullard, 1939a; Shreveport Geol. Soc., 1949.

Geology, general: Roemer, 1935; Ruedemann, P., 1939.

Geomorphology, soil relationship: Price, W. A., 1945a.

Geothermal data: Nichols, 1946; Plummer, F. B., 1934a.

Glass, natural: Patton, 1936.

Granite: Barnes, V. E., 1939a; Goldich, 1941.

Ground water: Kramer, 1935; Plummer, F. B., 1934a, 1946; Sayre, 1942; Sundstrom, 1949.

Gypsum: Barnes, V. E., 1946.

Iron deposits. *See* Iron deposits and minerals.

Maps.

Geologic: Sayre, 1942.

Structure (Ellenburger): Levorsen, 1941a.

Oil shale: Plummer, F. B., 1944b.

Oil and gas. *See* Oil and gas, general areas.

Central Texas—Continued

- Ouachita facies: Barnes, V. E., 1948.
 Paleogeology, Ordovician: Cloud, 1946a, 1948a.
 Paleontology: Bridge, 1937; Cloud, 1948; Jeffords, 1947; Lochman, 1938; Miller, A. K., 1947a, 1948; Moreman, 1942; Plummer, H. J., 1936, 1936a; Stenzel, 1944c; Wells, 1934, 1934a.
 Precambrian surface: Moss, 1936.
 Reefs: Durham, 1949; Nelson, H. F., 1949; Wells, 1933.
 Rock wool (siliceous limestone): Plummer, F. B., 1944a.
 Sedimentation. *See* Sedimentation.
 Serpentine: Plummer, F. B., 1934a.
 Soils: Roemer, 1935.
 Stratigraphic correlation: Bridge, 1940a.
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 Cephalopoda. *See* Paleontology.
 Ceramic clay. *See* Clay.
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 Cetacea. *See* Paleontology.
 Chaffin limestone. *See* Pennsylvanian strata.
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 Chalk Bluff formation. *See* Permian strata.
 Chambers County.
 Aerial photography: Barton, D. C., 1936b.
 Cross section: Ellisor, 1944.
 Geophysics: Bader, 1947; Barton, D. C., 1935, 1944a; Eby, 1935; Hoylman, 1946; Jenny, 1940; Wilson, J. M., 1941.
 Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.
 Oil and gas. *See* Anahuac, Barbers Hill, Cedar Bayou, Cedar Point, Cotton Lake, Double Bayou, Double Gum, Elm Bayou, Fig Ridge, Fishers Reef, Jackson Pasture, Jergins, Lost Lake, Mayes, Oyster Bayou, Red Fish Reef, Seabreeze, Smith Point, South Cotton Lake, South Mayes, Turtle Bay, Willow Slough, and Winnie fields under Oil and gas.
 Paleontology: Gravell, 1937.
 Salt domes. *See* Barbers Hill, Lost Lake, and Moss Bluff domes under Salt domes.
 Sulfur: Kinney, 1948f; Sellards, 1948.
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 Chaney gypsum and anhydrite beds. *See* Permian strata.
 Channel deposits. *See also* Streams, abandoned channels. Lee, W., 1938a.
 Chappel formation. *See* Mississippian strata.
 Chelonia. *See* Paleontology.
 Chernosky sand. *See* Tertiary strata and rocks.
 Cherokee County.
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 Iron deposits: Anderson, G. H., 1942; Baker,

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 Well records. *See also* Ground water, above. Bailey, T. L., 1945; Oil and Gas Jour., 1947; Stenzel, 1950.
 Cherry Canyon formation. *See* Permian strata.
 Chert: Cloud, 1946, 1948b.
 Chicasawhay marl. *See* Tertiary strata and rocks.
 Childress County.
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 Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.
 Map, geologic: Roth, 1937.
 Oil and gas: Ingalls, 1950.
 Stratigraphy: Roth, 1937.
 Well records. *See* Ground water, above.
 Childress dolomite. *See* Permian strata.
 China clay. *See* Clay.
 Chinati Mountains, Presidio County.
 Fluorspar: Evans, G. L., 1946c.
 Paleontology: Miller, A. K., 1945b.
 Stratigraphy: King, P. B., 1934; Sellards, 1938b; Skinner, 1940.
 Structure: Baker, C. L., 1935a.
 Chinati series. *See* Permian strata.
 Chinle formation. *See* Triassic strata.
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 Field trip: West Texas Geol. Soc., 1941b.
 Mercury minerals: Baker, C. L., 1935b.
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 Chispa Summit, Culberson County.
 Manganese: Baker, C. L., 1935b.
 Paleontology: Adkins, 1933.
 Chita sand. *See* Tertiary strata and rocks.
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 Choza formation. *See* Permian strata.
 Christmas Mountains, Brewster County.
 Mercury minerals: Baker, C. L., 1935b.
 Structure: Baker, C. L., 1935a.
 Chromite: Baker, C. L., 1935b; Barnes, V. E., 1940g; Sellards, 1940b, 1946b.
 Chusa member. *See* Tertiary strata and rocks.
 Cibolo formation. *See* Permian strata.
 Cieneguita beds. *See* Pennsylvanian strata; Permian strata.
 Cinnabar. *See* Mercury minerals and ores.
 Cirripedia. *See* Paleontology.
 Cisco group. *See* Pennsylvanian strata.
 Citronelle group. *See* Tertiary strata and rocks.
 Claiborne group. *See* Tertiary strata and rocks.
 Clastic dikes: Monroe, J. N., 1950.
 Clay: Baker, C. L., 1935c; Cowan, 1942; Crow, 1939; Hoeman, 1945; McCammon, 1942a; Sellards, 1940b, 1946b; Stenzel, 1948g; Whitcomb, 1939.
 Adsorptive clay. *See also* Bentonite; Fuller's earth. Hagner, 1939.
 Ball clay: Pence, 1950; Stenzel, 1950; Whitcomb, 1939.
 Bentonite. *See also* Bleaching clay, below. Anonymous, 1934; Baker, C. L., 1935c, 1944; Chelf, 1942; Cowan, 1942; Davis, C. W., 1940; Evans, G. L., 1941a; Hagner, 1939; Jenke, 1948;

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Bentonite—Continued

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Bleaching clay. *See also* Adsorptive clay; Filtering clay; Fuller's earth. Baker, C. L., 1944; Chelf, 1942; Jenke, 1948; King, P. B., 1940a; Mansfield, 1940; Nutting, 1933; Phillips, 1936; Sellards, 1946b.

Brick clay. *See also* Ceramic, below. Nickell, C. O., 1939; Plummer, F. B., 1936; Ramsey, 1936a; Stenzel, 1939a; Texas Power and Light Co., 1944.

Ceramic or burning clay. *See also* Ball clay; Kaolin. Broman, 1936a; Dallas Petroleum Geologists, 1941; De Beck, 1948; Harris, Geo. D., 1941; King, P. B., 1940a; Mansfield, 1940; Nickell, C. O., 1939; Nobles, 1946; Pence, 1944, 1946, 1949a, 1949b; Plummer, F. B., 1936, 1949; Ramsey, 1936a; Schoch, 1938a; Sellards, 1946b; Stenzel, 1939a, 1948h; Texas Power and Light Co., 1944; Whitcomb, 1939a.

Drilling clay. *See also* Bentonite, above. Jenke, 1948a; Sellards, 1946b.

Filtering clay. *See also* Bentonite; Fuller's earth. Evans, G. L., 1942a.

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Clay dunes. *See* Geomorphology.

Claytonville dolomite. *See* Permian strata.

Clear Creek limestone. *See* Pennsylvanian strata.

Clearfork group. *See* Permian strata.

Clyde formation. *See* Permian strata.

Coal. *See also* Lignite. Baker, C. L., 1935c; Criswell, 1942; Harrington, 1939; Lavine, 1941; Lonsdale, 1937; Plummer, F. B., 1933b, 1936; Roemer, 1935; Sellards, 1946b; Stenzel, 1946a, 1948c, 1949a.

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Maps: Averitt, 1942; Baker, C. L., 1935c; Lonsdale, 1937; Stenzel, 1946a; U. S. Bur. Mines, 1948a.

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counties: Romberg, 1949.

Cochran County.

Basement rocks: Patton, 1947.

Cross section: Fritz, 1940.

Ground water: Broadhurst, 1949.

Oil and gas. *See* Slaughter field under Oil and gas.

Well records: Broadhurst, 1949; Patton, 1947.

Cockfield formation. *See* Tertiary strata and rocks.

Coelenterata. *See* Paleontology.

Coke County.

Anthropology: Ray, 1948.

Bituminous sand: Stenzel, 1948b.

Celestite: Dennis, 1947; Evans, G. L., 1942, 1946b.

Cross sections: McFall, 1950; Mohr, 1939.

Geophysics: Brown, H., 1949.

Ground water: Broadhurst, 1949.

Map, geologic: Roth, 1937.

Oil and gas. *See also* Bronte, Fort Chadbourne, Jameson, and Millican fields under Oil and gas. Deegan, 1949g.

Sedimentation: Ray, 1948.

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Coleman County.

Field trip: Ardmore Geol. Soc., 1936.

Ground water: Texas State Bd. Water Engrs.

Maps, geologic: Abilene Geol. Soc., 1950; Hudsonall, 1937; Moore, R. C., 1949; Nickell, C. O., 1938; Plummer, F. B., 1949.

Meteorite: Barnes, V. E., 1940a.

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Paleontology: Heritsch, 1936a; Miller, A. K., 1947a; Moore, R. C., 1940b.

Sedimentation, Colorado River: Sidwell, 1937.

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Coleman Junction limestone. *See* Permian strata.

Cole sand. *See* Tertiary strata and rocks.

Collin County.

Cross section: Gee, 1950.

Field trip: East Texas Geol. Soc., 1945a.

Ground water: Sundstrom, 1948.

Map, structural: Bergquist, 1949.

Meteorites: Barnes, V. E., 1940a; Monnig, 1946b.

Paleontology: Cushman, 1936c.

Soils: Beck, 1935.

Stratigraphy: Ellisor, 1934; Stephenson, L. W., 1937a.

Well records: Bergquist, 1949; Sundstrom, 1948.

Collingsworth County.

Building stone: Baldwin, 1941.

Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.

Map, geologic: Roth, 1937.

Sand and gravel: Baldwin, 1941.

Stratigraphy: Roth, 1937.

Volcanic ash: Baldwin, 1941.

Well records: Texas State Bd. Water Engrs.

Colony Creek shale. *See* Pennsylvanian strata.

Colorado County.

Clay: Anonymous, 1934.

Cross section: Deussen, 1939.

Field trip: Stenzel, 1947.

Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.

Oil and gas. *See* Altair, Buck Snag, Chesterville, Columbus, Englehart, Frelsburg, Garwood, Glasscock, Hamel, Nada, Ramsey, Rock Island,

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 Stratigraphy: Deussen, 1939.
 Well records. *See also* Ground water, above. Rinehart, 1942.
- Colorado River. *See* Streams.
- Comal County.
 Caves: White, P. J., 1948a.
 Faults: George, W. O., 1947, 1948; Sellards, 1935c.
 Field trip: Corpus Christi Geol. Soc., 1948.
 Geomorphology: George, W. O., 1947.
 Geology, general: George, W. O., 1947.
 Ground water: Broadhurst, 1950; George, W. O., 1947, 1948; Sayre, 1942; Texas State Bd. Water Engrs.
 Maps, geologic: George, W. O., 1947, 1948.
 Reefs: Wells, 1933.
 Stratigraphy: Ellison, 1934; George, W. O., 1947; Stephenson, L. W., 1937a.
 Well records: Broadhurst, 1950; George, W. O., 1947; Texas State Bd. Water Engrs.
- Comanche County.
 Celestite: Evans, G. L., 1946b.
 Ground water: Sundstrom, 1949.
 Paleontology: Albritton, 1942; Moore, R. C., 1940b.
- Comanche series. *See* Cretaceous strata.
- Comanche Peak limestone. *See* Cretaceous strata.
- Comyn formation. *See* Pennsylvanian strata.
- Concho arch: Cheney, 1934, 1936, 1938, 1940, 1947a; Sellards, 1935c.
- Concho County.
 Faults, small scale deformation: Osmond, 1950.
 Ground water: Sundstrom, 1949.
 Maps, geologic: Kramer, 1934a; Moore, R. C., 1949.
 Stratigraphy: Kramer, 1934a.
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- Conodonts. *See* Paleontology.
- Conroe sand. *See* Tertiary strata and rocks.
- Conroe trend. *See* Oil and gas, general areas.
- Construction materials. *See also* Building stone; Road materials. Ingram, S. H., 1947.
- Continental shelf. *See* Gulf of Mexico, continental shelf.
- Cooke County.
 Asphalt: Baker, C. L., 1935c.
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 Geothermal data: Barnes, V. E., 1946d.
 Ground water: Barnes, V. E., 1946d; Sundstrom, 1949.
 Maps, geologic: Adkins, 1933a; Bailey, 1945; Bergquist, 1949.
 Meteorite: Barnes, V. E., 1940a.
 Oil and gas. *See* Walnut Bend field under Oil and gas.
 Oil field waters: Barnes, V. E., 1946d.
 Paleontology: Caster, 1945; Loeblich, A. R., 1941; Lozo, 1944.
 Stratigraphy: Bailey, 1945; Thompson, S. A., 1935.
 Well records: Sundstrom, 1949.
- Cook Mountain formation. *See* Tertiary strata and rocks.
- Coon Mountain sandstone. *See* Pennsylvanian strata.
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- Corals. *See* Paleontology, Anthozoa.
- Cornudas Mountains, Hudspeth County: Bryan, K., 1942a; Lang, W. D., 1941a.
- Corpus Christi structural basin: Price, W. A., 1935.
- Corsicana marl. *See* Cretaceous strata.
- Coryell County.
 Ground water: Guyton, 1945; Sundstrom, 1949.
 Reefs: Nelson, H. F., 1949.
 Stratigraphy: Ikins, 1949; Thompson, S. A., 1935.
 Well records: Sundstrom, 1949.
- Cottle County.
 Ground water: Broadhurst, 1949.
 Map, geologic: Roth, 1937.
 Stratigraphy: Roth, 1937.
- Cotton Valley formation. *See* Jurassic strata.
- Cottonwood Spring basalt. *See* Tertiary strata and rocks.
- Cotylosauria. *See* Paleontology.
- Couch formation. *See* Tertiary strata and rocks.
- Cow Creek beds. *See* Cretaceous strata.
- Cowden anhydrite. *See* Permian strata.
- Cox sandstone. *See* Cretaceous strata.
- Craddock clay. *See* Pennsylvanian strata.
- Crane County.
 Cross sections: Doherty, 1938; Ellison, 1950; Fritz, 1940.
 Geophysics: Park, 1949.
 Geothermal data: Birch, 1945.
 Ground water: Berger, 1934; Broadhurst, 1949; Sayre, 1942a.
 Oil and gas. *See* Block 31, Church-Fields-McElroy, McCamey, McKnight, Sand Hills, and Tubbs fields under Oil and gas.
 Oil field waters: Berger, 1934.
 Paleontology: Decker, C. E., 1941, 1942, 1942a.
 Potash: Cunningham, 1935, 1936.
 Stratigraphy: Powers, 1940; Schweers, 1949.
 Well records: Broadhurst, 1949.
- Craters. *See* Geomorphology.
- Creola beds. *See* Tertiary strata and rocks.
- Cretaceous.
 Caprock, salt dome: Tatum, E. P., 1939.
 Clastic dikes: Monroe, J. N., 1950.
 Correlations: Adkins, 1933a; Blanpied, 1939; Dott, 1941; Hazzard, 1939b, 1946, 1947; Howard, W. V., 1942; Imlay, 1944, 1944a, 1945; Kane, 1935, 1936; Keller, 1937; Monroe, W. H., 1946; Philpott, 1949; Rouse, 1944; Roy, 1941; Shimer, 1934; Stephenson, L. W., 1937a, 1938a, 1942.
 Field trips: Damon, 1940a; East Texas Geol. Soc., 1945a; Moody, 1946; Scott, G., 1941; Shreveport Geol. Soc., 1949; Smith, J. F., 1949; South Texas Geol. Soc., 1937a; West Texas Geol. Soc., 1950.
 Ground water. *See also* Strata, below. Barnes, J. R., 1949; Plummer, F. B., 1944; White, W. N., 1948.
 Igneous rocks, volcanism: Adkins, 1933a; Maley, 1938; Miser, 1934a, 1938; Moody, 1949.
 Laramide deformation: Baker, C. L., 1935a.

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 Paleobotany. *See* Paleobotany and *also* Strata, below.
 Paleoclimate. *See* Paleoclimate.
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 Problems: Scott, G., 1940; Smith, J. F., 1940.
 Reefs. *See* Reefs.
 Relationship, Cretaceous-Tertiary: Scott, G., 1940d.
 Sediments, interval map: Peterson, H. A., 1943.
 Strata.
 Aguja formation.
 Paleobotany: Dorf, 1939.
 Paleontology: Adkins, 1933a.
 Stratigraphy: Adkins, 1933a; Eifler, 1943.
 Anacacho limestone.
 Asphalt: Gorman, 1946; Utterbach, 1936.
 Bleaching clay: King, P. B., 1940a.
 Oil and gas: Merritt, 1935.
 Paleontology: Adkins, 1933a; Ikens, 1940; Patterson, 1942a; South Texas Geol. Soc., 1937a; Stephenson, L. W., 1934, 1937a.
 Stratigraphy: Adkins, 1933a; Sayre, 1936; Stephenson, L. W., 1937a.
 Annona chalk.
 Correlation: Rouse, 1944.
 Paleontology: Cushman, 1933; Stephenson, L. W., 1934.
 Stratigraphy: East Texas Geol. Soc., 1945a; Moody, 1946; Rouse, 1944; Stephenson, L. W., 1937a.
 Arcadia Park shale.
 Paleontology: Moreman, 1942.
 Stratigraphy: Adkins, 1933a.
 Austin chalk: Morgan, A., 1940; Ruiz, 1936; Schuchert, 1935a.
 Building stone: Barnes, V. E., 1947a.
 Channel fillings: Ham, 1941.
 Drainage controls, Dallas County: Blake-more, 1939a.
 Faults, Dallas County: Meyer, 1944.
 Ground water: George, W. O., 1947.
 Oil and gas: Cooper, H. H., 1938; Merritt, 1935.
 Paleontology: Adkins, 1933a; Cushman, 1940a, 1940d; Dallas Petroleum Geologists, 1941; Eifler, 1950; Feray, 1949; Grice, 1948; Ikens, 1940; Plummer, H. J., 1949; South Texas Geol. Soc., 1937a; Scott, G., 1933; Stephenson, L. W., 1936, 1937a, 1945.
 Pyroclastics: Durham, 1949.
 Reefs: Durham, 1949; Johnson, J. H., 1944.
 Stratigraphy: Adkins, 1933a; Bailey, 1945; Dallas Petroleum Geologists, 1941; Denison, 1933; Eifler, 1950; Feray, 1949; George, W. O., 1947; Jones, C. T., 1938; Kane, 1936; Liddle, 1937; McCallum, 1933; Sayre, 1936; Scott, G., 1933; Stenzel, 1939a; Stephenson, L. W., 1937a.
 Structure: Dallas Petroleum Geologists, 1941; Denison, 1933.

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Strata—Continued

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 Bacon limestone.
 Oil and gas: Carpenter, 1949.
 Stratigraphy: Jones, W. V., 1945.
 Bissett conglomerate, age: Adams, J. E., 1935.
 Blossom sand.
 Oil and gas: Easton, 1936.
 Paleontology: Adkins, 1933a.
 Stratigraphy: Adkins, 1933a; Stephenson, L. W., 1937a.
 Bluff bed: Smith, J. F., 1941a.
 Paleontology: Smith, J. F., 1940a.
 Stratigraphy: Huffington, 1943; Smith, J. F., 1940a.
 Bonham marl.
 Paleontology: Adkins, 1933a.
 Stratigraphy: Adkins, 1933a.
 Boquillas flags.
 Mercury: Yates, 1944a.
 Paleontology: Eifler, 1943; Goldich, 1949.
 Stratigraphy: Eifler, 1943; Goldich, 1948, 1949; Warren, 1942.
 Britton clay.
 Paleontology: Adkins, 1933a; Moreman, 1942.
 Stratigraphy: Adkins, 1933a.
 Brownstown marl.
 Paleontology: Adkins, 1933a.
 Stratigraphy: Adkins, 1933a.
 Buda limestone.
 Mercury: Yates, 1944, 1944a.
 Oil and gas: Merritt, 1935.
 Paleontology: Adkins, 1933a; Damon, 1940a; Goldich, 1949; Stenzel, 1944c; Wells, 1933, 1934, 1934a, 1944.
 Petrography: Holland, W. Y., 1937.
 Stratigraphy: Adkins, 1933a; Bailey, 1945; Curry, 1934; Damon, 1940a; Eifler, 1943; Feray, 1949; George, W. O., 1947; Goldich, 1949; King, P. B., 1938b; McCallum, 1933; Sayre, 1936; Stanton, 1947; Warren, 1942.
 Buda-like limestone, paleontology: Stephenson, L. W., 1944.
 Burditt marl.
 Correlation: Stephenson, L. W., 1937a.
 Paleontology: Adkins, 1933a; Feray, 1949.
 Stratigraphy: Adkins, 1933a; Feray, 1949.
 Campagrande formation.
 Paleontology: Stanton, 1947.
 Stratigraphy: Albritton, 1941; Stanton, 1947.
 Cannon Ball zone, stratigraphy: Hazzard, 1939a.
 Cedar Park member.
 Building stone: Barnes, V. E., 1947a.
 Paleontology: Adkins, 1933a.
 Stratigraphy: Adkins, 1933a; Feray, 1949; Lozo, 1949.
 Comanche series.
 Classification: Hill, R. T., 1937a.
 Correlations: Hazzard, 1939b.
 Geophysics: Beers, 1940.
 Nomenclature: Hazzard, 1939b; Keyes,

Cretaceous—Continued

Strata Continued

Comanche series—Continued

1935, 1940.

Oil and gas: Merritt, 1935.

Paleontology: Adkins, 1933a; Cooke, 1946; Gray, 1949; Houston, 1933; Lozo, 1941, 1944, 1944a; Roth, 1933a; Scott, G., 1942; Stanton, 1947.

Stratigraphy: Adkins, 1933a; Cheney, 1947a; Curry, 1934; Gray, 1949; Liddle, 1937; Scott, G., 1942.

Structure: Scott, G., 1942.

Comanche Peak limestone.

Building stone: Barnes, V. E., 1947a.

Geomorphology: Blank, 1947.

Ground water: George, W. O., 1947.

Paleontology: Adkins, 1933a; Damon, 1940a; Ikins, 1949; Lynch, 1933; Plummer, F. B., 1950; Wells, 1933.

Stratigraphy: Adkins, 1933a; Damon, 1940a; George, W. O., 1947; Ikins, 1949; Lozo, 1949; Plummer, F. B., 1950; Roth, 1937; Thompson, S. A., 1935.

Conglomerates, petrography: Damon, 1940.
Corsicana marl.

Paleontology: Cushman, 1940b, 1940d, 1941, 1943a; Stephenson, L. W., 1941, 1941a.

Stratigraphy: Stephenson, L. W., 1941a.

Cow Creek beds.

Ground water: George, W. O., 1947.

Paleontology: Adkins, 1933a; Plummer, F. B., 1950.

Stratigraphy: Adkins, 1933a; Barnes, V. E., 1948; Cloud, 1946; Cuyler, 1939; Feray, 1949; George, W. O., 1947; Plummer, F. B., 1950.

Cox sandstone: Havard, 1950; Smith, J. F., 1941a.

Paleontology: Smith, J. F., 1940a; Stanton, 1947.

Slope stability: Campbell, T. N., 1941; Howard, B. R., 1941; Trace, 1942.

Stratigraphy: Adkins, 1933a; Albritton, 1941; Huffington, 1943; Smith, J. F., 1940a; Stanton, 1947.

Cuchillo formation.

Paleontology: Adkins, 1933a; Lozo, 1943a.

Stratigraphy: Adkins, 1933a.

Del Rio clay.

Mercury: Ross, 1941, 1942; Yates, 1944, 1944a.

Oil and gas: Merritt, 1935.

Paleontology: Damon, 1940a; Eifler, 1943; Feray, 1949; Ikins, 1940; Plummer, H. J., 1949; South Texas Geol. Soc., 1937a; Stanton, 1947.

Stratigraphy: Curry, 1934; Damon, 1940a; Eifler, 1943; Feray, 1949; King, P. B., 1938b; McCallum, 1933; Sayre, 1936.

Denton formation.

Paleontology: Adkins, 1933a; Loeblich, A. R., 1941; Scott, G., 1933; Vieaux, 1941, 1943; Wells, 1933.

Stratigraphy: Adkins, 1933a; Bailey, 1945; Scott, G., 1933.

Devils River limestone.

Mercury: Yates, 1944.

Paleontology: Eifler, 1943; Ross, C. P., 1943a; Stanton, 1947.

Cretaceous—Continued

Strata—Continued

Devils River limestone—Continued

Stratigraphy: Eifler, 1943; Ross, C. P., 1935b, 1943a; Stanton, 1947; Warren, 1942.

Dexter sand.

Nomenclature: Hazzard, 1947.

Paleontology: Bailey, 1945; Bergquist, 1949.

Stratigraphy: Bailey, 1945; Bergquist, 1949; Stephenson, L. W., 1944.

Duck Creek formation.

Paleontology: Adkins, 1933a, 1944; Ikins, 1949; Loeblich, A. R., 1941; Lozo, 1942, 1943; Scott, G., 1933; Tappan, 1942; Wells, 1933.

Stratigraphy: Adkins, 1933a; Bailey, 1945; Ikins, 1949; Lozo, 1943; Scott, G., 1933; Thompson, S. A., 1935.

Durango sand, stratigraphy: Adkins, 1933a.

Eagle Ford shale and clay: Havard, 1950;

Schuchert, 1935a; Smith, J. F., 1941a.

Arkansas facies, Centerpoint volcanics: Hazzard, 1939a.

Ceramic clays: Schoch, 1938a.

Correlation: Kane, 1936.

Oil and gas: Merritt, 1935.

Paleobotany: Adkins, 1933a; Barton, H. M., 1948; Jones, D. J., 1947.

Paleontology: Adkins, 1933a, 1949; Cushman, 1940a; Dallas Petroleum Geologists, 1941; Feray, 1949; Gilmore, C. W., 1935; Graham, J. J., 1949; Hazzard, 1939a; Moreman, 1942; Scott, G., 1933, 1940c; Shuler, 1947, 1950; Stenzel, 1944; Welles, 1949.

Septaria: Litsey, 1942.

Stratigraphy: Adkins, 1933a; Dallas Petroleum Geologists, 1941; Denison, 1933; Feray, 1949; George, W. O., 1947; Hazzard, 1939a; Jones, C. T., 1933; King, P. B., 1938b; Liddle, 1937; McCallum, 1933; Sayre, 1936; Scott, G., 1933; Smith, J. F., 1940a; Stenzel, 1939a.

Structure: Dallas Petroleum Geologists, 1941.

Eagle Ford-Woodbine contact, alunite: Stephenson, L. W., 1946a.

Eagle Ford-Woodbine group.

Oil and gas: Minor, 1941.

Stratigraphy: Minor, 1941.

Ector chalk.

Paleontology: Adkins, 1933a.

Stratigraphy: Adkins, 1933a.

Edens sand: Adkins, 1933a.

Edwards limestone.

Building stone: Barnes, V. E., 1947a; Nickell, C. O., 1941.

Correlation: Kane, 1936.

Fluorspar: Gillerman, 1946, 1948.

Geomorphology: Blank, 1947.

Ground water: George, W. O., 1947, 1948; Livingston, 1936, 1947a; Plummer, F. B., 1946; Sayre, 1936, 1942.

Gypsum: Barnes, V. E., 1942a, 1946.

Oil and gas: Cooper, H. H., 1938; Jones, R. A., 1933a; Merritt, 1935.

Paleontology: Adkins, 1933a; Curry, W. H., 1934; Damon, 1940a; Grubbs, 1936; Ikins, 1940a; Lynch, 1933; Plummer, F. B., 1950; Wells, 1933.

Radioactivity logs: Bush, 1950.

Cretaceous—Continued

Strata—Continued

Edwards limestone—Continued

Reefs: Nelson, H. F., 1949.

Rivers of: Burr, 1943.

Stratigraphy: Adkins, 1933a; Barnes, V. E., 1946; Curry, 1934; Damon, 1940a; Feray, 1949; George, W. O., 1947; Grubbs, 1936; Ikens, 1949; Imlay, 1945b; King, P. B., 1938b; Lozo, 1949; McCallum, 1933; Plummer, F. B., 1950; Roth, 1937; Sayre, 1936; Thompson, S. A., 1935.

Elledge sandstone, oil and gas: Carpenter, 1949.

Escondido formation: Schuchert, 1935a.

Oil and gas: Merritt, 1935.

Paleontology: Adkins, 1933a; Dunkle, 1948.

Stratigraphy: Adkins, 1933a; Sayre, 1936; Stephenson, L. W., 1937a.

Espy formation, stratigraphy: Huffington, 1943.

Etholen conglomerate, stratigraphy: Adkins, 1933a; Huffington, 1943.

Featureless clays, nomenclature: Hazzard, 1947.

Finlay limestone: Havard, 1950; Smith, J. F., 1941a.

Paleontology: Smith, J. F., 1940a; Stanton, 1947.

Stratigraphy: Adkins, 1933a; Albritton, 1941; Huffington, 1943; Smith, J. F., 1940a; Stanton, 1947.

Fish bed conglomerate.

Paleontology: Adkins, 1933a.

Stratigraphy: Adkins, 1933a; Hazzard, 1939a.

Fort Worth limestone.

Paleontology: Adkins, 1933a; Constant, 1939; Scott, G., 1933.

Stratigraphy: Adkins, 1933a; Bailey, 1945; Scott, G., 1933.

Fredericksburg group: Germond, 1940;

Havard, 1950; Rasmussen, 1947.

Classification: Hill, R. T., 1937.

Oil and gas: Easton, 1936.

Paleontology: Adkins, 1933a; Ikens, 1940; Livingston, 1944; Lozo, 1943, 1944; Peck, R. E., 1943; Scott, G., 1933, 1940a; Smiser, 1936.

Stratigraphy: Adkins, 1933a; Bailey, 1945; Dallas Petroleum Geologists, 1941; Denison, 1933; Jones, C. T., 1938; Livingston, 1944; Lozo, 1949; Scott, G., 1933; Thompson, S. A., 1935.

Fredericksburg-Washita contact: Curry, 1934; Lozo, 1942, 1943.

Gatesville formation.

Paleontology: Thompson, S. A., 1935.

Stratigraphy: Thompson, S. A., 1935.

General discussion and stratigraphy: Barnes, J. R., 1949; Barnes, V. E., 1941; Damon, 1940a; Dott, 1941; Ellison, 1948; Imlay, 1946; King, P. B., 1934a, 1935; King, R. E., 1946; Monroe, W. H., 1947; Morgan, A. M., 1942; Murray, G. E., 1950a; Strain, 1950; Ver Wiebe, 1933; Warner, 1939; West Texas Geol. Soc., 1939.

Georgetown limestone.

Correlation: Kane, 1936.

Oil and gas: Merritt, 1935.

Paleontology: Curry, W. H., 1934; Damon, 1940a; Eifler, 1950; Feray,

Cretaceous—Continued

Strata—Continued

Georgetown limestone—Continued

1949; Goldich, 1949; Ikens, 1940; Wells, 1933.

Stratigraphy: Bailey, 1945; Curry, 1934; Damon, 1940a; Eifler, 1950; Feray, 1949; George, W. O., 1947; Goldich, 1949; Imlay, 1945b; King, P. B., 1938b; McCallum, 1933; Sayre, 1936; Stenzel, 1939a.

Gillespie formation.

Paleobotany: Adkins, 1933a.

Stratigraphy: Adkins, 1933a.

Glen Rose limestone.

Building stone: Barnes, V. E., 1947a.

Correlations: Hazzard, 1939b; Imlay, 1944; Kane, 1935.

Ground water: Fiedler, 1934; George, W. O., 1942, 1947.

Oil and gas: Merritt, 1935; Williams, N., 1945.

Paleobotany: Adkins, 1933a; Peck, 1938.

Paleontology: Adkins, 1933a; Albritton, 1938, 1942; Berry, E. W., 1941a; Damon, 1940a; Eifler, 1943; George, W. O., 1947; Houston, 1933; Ikens, 1949; Lozo, 1944; Plummer, F. B., 1950; Scott, G., 1933; Shuler, 1935a, 1937; Stanton, 1947; Wells, 1933.

Petrography: Holland, W. Y., 1937.

Reefs: Wells, 1933.

Stratigraphy: Adkins, 1933a; Albritton, 1938, 1942; Barnes, V. E., 1948; Branson, D. O., 1950; Cloud, 1946, 1948b; Curry, 1934; Dallas Petroleum Geologists, 1941; Damon, 1940a; Eifler, 1943; Feray, 1949; George, W. O., 1947; Ikens, 1949; Imlay, 1945b; King, P. B., 1938b; Liddle, 1937; Lozo, 1949; Plummer, F. B., 1950; Sayre, 1936; Scott, G., 1933; Stanton, 1947; Thompson, S. A., 1935.

Gober chalk.

Paleontology: Adkins, 1933a.

Stratigraphy: Adkins, 1933a; Stenzel, 1939a; Stephenson, L. W., 1937a.

Goodland limestone.

Paleontology: Adkins, 1933a; Ikens, 1940; Lozo, 1944; Lynch, 1933; Scott, G., 1933; Wells, 1933.

Stratigraphy: Adkins, 1933a; Bailey, 1945; Branson, D. O., 1950; Scott, G., 1933.

Grayson marl.

Age: Tappan, 1943.

Paleontology: Adkins, 1933a; Bailey, 1945; Berry, C. T., 1941; Goldich, 1949; Ikens, 1940; Loeblich, A. R., 1941; Scott, G., 1933; Tappan, 1940, 1943.

Stratigraphy: Adkins, 1933a; Bailey, 1945; George, W. O., 1947; Goldich, 1949; Scott, G., 1933; Stenzel, 1939a; Stephenson, L. W., 1944.

Gulf series: Havard, 1950; Rasmussen, 1947; Thomas, N. L., 1934.

Ground water: Rasmussen, 1947.

Paleontology: Adkins, 1933a; Scott, G., 1933.

Soils: U. S. Dept. Agriculture, 1942.

Stratigraphy: Adkins, 1933a; Branson, 1950; Broadhurst, 1950a; Scott, G., 1933.

Cretaceous—Continued

Strata—Continued

Gulf series—Continued

Harris sand, oil and gas: Scott, E. R., 1948.
Hensell sand.

Correlations: Imlay, 1944.

Ground water: George, W. O., 1947.

Stratigraphy: Adkins, 1933a; Barnes, V. E., 1948; Cloud, 1948b; Cuyler, 1939; George, W. O., 1947; Plummer, F. B., 1950.

Hill sand, oil and gas: Carpenter, 1949; Ivy, 1936.

Hosston formation.

Correlation: Imlay, 1944.

Stratigraphy: Imlay, 1945b.

Kanawha volcanic zone, stratigraphy: Hazzard, 1939a.

Kemp clay.

Paleontology: Berry, C. T., 1941; Stephenson, L. W., 1938, 1941, 1941a.

Stratigraphy: Adkins, 1933a; Stephenson, L. W., 1941a.

Kiamichi formation: Sandidge, 1943.

Mineral study: Sidwell, 1936.

Paleontology: Adkins, 1933a; Feray, 1949; Ikins, 1949; Loeblich, A. R., 1950; Lozo, 1942, 1943, 1944; Scott, G., 1933; Stainbrook, 1940; Wells, 1933.

Stratigraphy: Adkins, 1933a; Bailey, 1945; Branson, D. O., 1950; Feray, 1949; Huffington, 1943; Ikins, 1949; Imlay, 1945b; Lozo, 1943, 1949; Scott, G., 1933; Smith, J. F., 1940a; Thompson, S. A., 1935.

Kirschberg evaporite, gypsum: Barnes, V. E., 1946.

Las Vigas formation.

Paleontology: Adkins, 1933a.

Stratigraphy: Adkins, 1933a; Albritton, 1938.

Lewisville beds.

Paleontology: Bailey, 1945; Bergquist, 1949; Stephenson, L. W., 1946.

Stratigraphy: Adkins, 1933a; Bailey, 1945; Bergquist, 1949.

Lott chalk, stratigraphy: Adkins, 1933a.

Main Street limestone.

Paleontology: Adkins, 1933a; Bailey, 1945; Loeblich, A. R., 1941; Scott, G., 1933; Wells, 1933.

Stratigraphy: Adkins, 1933a; Bailey, 1945; Scott, G., 1933.

Maness shale, stratigraphy: Bailey, 1945.

Marlin chalk.

Paleontology: Adkins, 1933a.

Stratigraphy: Adkins, 1933a.

Maxon sandstone.

Paleontology: Eifler, 1943.

Stratigraphy: Adkins, 1933a; Eifler, 1943; King, P. B., 1938b.

Medill volcanic zone, stratigraphy: Hazzard, 1939a.

Nacatoch sand.

Oil and gas: Easton, 1936.

Paleontology: Adkins, 1933a; Stephenson, L. W., 1937b, 1941, 1941a.

Stratigraphy: Adkins, 1933a; Stephenson, L. W., 1941a.

Navarro group: Schuchert, 1935a.

Paleontology: Adkins, 1933a; Cushman, 1940a, 1940d; Plummer, H. J., 1936,

Cretaceous—Continued

Strata—Continued

Navarro group—Continued

1936a, 1949; Quesenbery, 1936; Scott, G., 1933; South Texas Geol. Soc., 1937a; Stephenson, L. W., 1933, 1941, 1941a; Wells, 1933.

Permeability: Caran, 1948.

Stratigraphy: Adkins, 1933a; Denison, 1933; Liddle, 1937; McCallum, 1933; Quesenbery, 1936; Scott, G., 1933; Stenzel, 1939a; Stephenson, L. W., 1941a.

Navarro-Taylor.

Contact, paleontological evidence: Plummer, H. J., 1936.

Oil and gas: Cooper, H. H., 1938.

Neylandville marl.

Paleontology: Adkins, 1933a; Stephenson, L. W., 1941, 1941a.

Stratigraphy: Adkins, 1933a; Stephenson, L. W., 1941a.

Olmos formation.

Paleontology: Adkins, 1933a.

Stratigraphy: Adkins, 1933a.

Paluxy sand.

Classification: Hill, R. T., 1937a.

Correlation: Imlay, 1944.

Ground water: Fiedler, 1934; George, W. O., 1942, 1943.

Oil and gas: Kornfeld, J. A., 1940; Scott, E. R., 1948.

Paleobotany: Adkins, 1933a; Ball, 1937, 1939.

Paleontology: Adkins, 1933a.

Stratigraphy: Adkins, 1933a; Dallas Petroleum Geologists, 1941; Ikins, 1949; Liddle, 1937; Lozo, 1949; Plummer, F. B., 1950; Scott, G., 1933; Thompson, S. A., 1935.

Pawpaw formation.

Paleobotany: Adkins, 1933a.

Paleontology: Adkins, 1933a; Caster, 1945; Loeblich, A. R., 1941; Scott, G., 1933; Wells, 1933.

Stratigraphy: Adkins, 1933a; Bailey, 1945; Scott, G., 1933.

Pearsall formation.

Correlation: Imlay, 1944.

Stratigraphy: Imlay, 1945b.

Pecan Gap chalk.

Correlation: Anderson, I. J., 1948; Ellisor, 1934; Rouse, 1944.

Diastems: Frizzell, 1950a.

Field trip: East Texas Geol. Soc., 1945a; Moody, 1946.

Paleontology: Adkins, 1933a; Cushman, 1944; Ellisor, 1934; Feray, 1949; Frizzell, 1950a; Plummer, H. J., 1949; South Texas Geol. Soc., 1937a; Stephenson, L. W., 1934.

Stratigraphy: Adkins, 1933a; Ellisor, 1934; Feray, 1949; Liddle, 1937; Rouse, 1944; Stenzel, 1939a.

Structure: Denison, 1933.

Pepper formation.

Paleontology: Adkins, 1933a; Loeblich, A. R., 1946.

Stratigraphy: Adkins, 1933a; Feray, 1949; Loeblich, A. R., 1946.

Pettet limestone.

Oil and gas: Branson, D. O., 1950; Korn-

Cretaceous—Continued

Strata—Continued

- feld, J. A., 1940; Oil and Gas Jour., 1947b.
 Stratigraphy: Branson, D. O., 1950.
 Pine Bluff zone, stratigraphy: Hazzard, 1939a.
 Pittsburg (Pettet) sandstone, oil and gas: Carpenter, 1949.
 Presidio formation.
 Paleontology: Ross, 1935b, 1943a.
 Stratigraphy: McMillan, 1949a; Ross, 1935b, 1943a.
 Pre-Trinity sediments: Getzendenaner, F. M., 1943.
 Quitman bed.
 Paleontology: Adkins, 1933a; Stanton, 1947.
 Stratigraphy: Stanton, 1947.
 Rainbow clay, stratigraphy: Bergquist, 1949.
 Red Branch member.
 Paleontology: Bergquist, 1949.
 Stratigraphy: Bergquist, 1949.
 Rodessa limestone.
 Correlation: Imlay, 1944.
 Oil and gas: Branson, D. O., 1950.
 Stratigraphy: Branson, D. O., 1950.
 Rogers chalk, paleontology: Adkins, 1933a.
 San Miguel formation.
 Oil and gas: Clark, G. H., 1947.
 Paleontology: Adkins, 1933a; Stephenson, L. W., 1937b.
 Stratigraphy: Adkins, 1933a.
 Shafter limestone.
 Paleontology: Ross, 1935b, 1943a.
 Stratigraphy: Ross, 1935b, 1943a.
 Shingle Hills formation, stratigraphy: Barnes, V. E., 1948.
 Sligo formation.
 Correlation: Imlay, 1944.
 Stratigraphy: Imlay, 1945b.
 South Tyler formation, nomenclature: Hazzard, 1947.
 Sycamore sand: Cloud, 1946.
 Stratigraphy: Adkins, 1933a; Barnes, V. E., 1948; Cuyler, 1939; Feray, 1949; Plummer, F. B., 1950.
 Tarrant formation.
 Paleontology: Adkins, 1933a; Moreman, 1942.
 Stratigraphy: Adkins, 1933a.
 Taylor marl: Richards, A., 1948; Schuchert, 1935a.
 Bleaching clay: King, P. B., 1940a.
 Field trip: Moody, 1946.
 Paleobotany: Adkins, 1933a.
 Paleontology: Adkins, 1933a; Cushman, 1940a, 1940b, 1940d, 1941; Dallas Petroleum Geologists, 1941; Eifler, 1950; Feray, 1949; Patterson, 1942a; Plummer, H. J., 1936, 1949; Scott, G., 1933; South Texas Geol. Soc., 1937a; Stephenson, L. W., 1937a; Wells, 1933.
 Stratigraphy: Adkins, 1933a; Dallas Petroleum Geologists, 1941; Denison, 1933; Eifler, 1950; Feray, 1949; Jones, C. T., 1938; Liddle, 1937; McCallum, 1933; Scott, G., 1933; Stenzel, 1939a; Stephenson, L. W., 1937a.

Cretaceous—Continued

Strata—Continued

- Taylor marl—Continued
 Structure: Dallas Petroleum Geologists, 1941.
 Templeton member.
 Paleontology: Bergquist, 1949.
 Stratigraphy: Bergquist, 1949.
 Torcer formation.
 Paleontology: Adkins, 1933a; Albritton, 1937d; Stoyanow, 1936.
 Stratigraphy: Adkins, 1933a; Albritton, 1933; Huffington, 1943; Stoyanow, 1936.
 Tornillo clay.
 Paleontology: Adkins, 1933a.
 Stratigraphy: Adkins, 1933a.
 Travis Peak formation.
 Geologic history: Cuyler, 1939.
 Ground water: George, W. O., 1942, 1943, 1947; Guyton, 1945; Plummer, F. B., 1946.
 Nomenclature: Hazzard, 1939b.
 Oil and gas: Branson, D. O., 1950; Williams, N., 1945.
 Paleontology: Adkins, 1933a; Cuyler, 1939; Damon, 1940a; Plummer, F. B., 1950.
 Stratigraphy: Adkins, 1933a; Barnes, V. E., 1948; Branson, D. O., 1950; Cloud, 1946, 1948b; Cuyler, 1939; Dallas Petroleum Geologists, 1941; Damon, 1940a; George, W. O., 1947; Plummer, F. B., 1950; Scott, G., 1933.
 Topography: Cuyler, 1939.
 Trinity group: Havard, 1950.
 Asphalt: Evans, G. L., 1941a.
 Building stone: Barnes, V. E., 1936b.
 Classification: Hill, R. T., 1937.
 Ground water: Fiedler, 1934; Knowles, 1947; Livingston, 1944; Rasmussen, 1947.
 Oil and gas: Carpenter, 1949; Easton, 1936; Oil Weekly, 1936.
 Paleobotany: Ball, 1936, 1937; Chelf, 1946.
 Paleontology: Adkins, 1933a; Lozo, 1944; Scott, G., 1933, 1938, 1940a, 1940b.
 Sedimentation: Sidwell, 1947.
 Stratigraphy: Adkins, 1933a; Barnes, V. E., 1948; Brown, A. B., 1943; Denison, 1933; Liddle, 1937; Livingston, 1944; Roth, 1937; Scott, G., 1933; Thompson, S. A., 1935.
 Unnamed post-Grayson shale and sandy clay.
 Paleontology: Bergquist, 1949.
 Stratigraphy: Bergquist, 1949.
 Upson clay.
 Paleontology: Adkins, 1933a; Thalmann, 1942.
 Stratigraphy: Adkins, 1933a.
 Walnut clay.
 Paleobotany: Adkins, 1933a.
 Paleontology: Adkins, 1933a; Damon, 1940a; Feray, 1949; Ikins, 1940, 1949; Keijzer, 1942; Loeblich, A. R., 1949; Lozo, 1944; Plummer, F. B., 1950; Ross, 1943a; Scott, G., 1933; Wells, 1933; Withers, 1946.
 Stratigraphy: Adkins, 1933a; Bailey, 1945; Cloud, 1948b; Damon, 1940a;

Cretaceous—Continued

Strata—Continued

Walnut clay—Continued

Feray, 1949; George, W. O., 1947; Ikins, 1949; Lozo, 1949; Plummer, F. B., 1950; Ross, 1935b, 1943a; Scott, G., 1933; Smith, J. F., 1940a; Thompson, S. A., 1935.

Washita group: Havard, 1950; Rasmussen, 1947; Schuchert, 1935a; Smith, J. F., 1941a.

Oil and gas: Easton, 1936.

Paleontology: Adkins, 1933a; Awbrey, 1942; Garrison, 1943; Loeblich, A. R., 1941, 1946a; Lozo, 1943; Peck, 1943; Scott, G., 1933, 1940a, 1940c; Smiser, 1936; Smith, J. F., 1940a; Vieaux, 1941; Wells, 1947.

Stratigraphy: Adkins, 1933a; Bailey, 1945; Branson, D. O., 1950; Dallas Petroleum Geologists, 1941; Denison, 1933; Jones, C. T., 1938; Scott, G., 1933; Stenzel, 1939a.

Washita-Fredericksburg contact: Curry, 1934.

Weno clay.

Paleontology: Adkins, 1933a; Berry, C. T., 1941; Loeblich, A. R., 1941; Scott, G., 1933; Wells, 1938.

Stratigraphy: Adkins, 1933a; Bailey, 1945; Scott, G., 1933.

Wolfe City sand: Richards, A., 1948.

Correlation: Rouse, 1944.

Field trip: East Texas Geol. Soc., 1945a; Moody, 1946.

Oil and gas: Easton, 1936.

Paleontology: Adkins, 1933a.

Stratigraphy: Adkins, 1933a; Rouse, 1944; Stenzel, 1939a.

Woodbine sand: Barton, D. C., 1937; Morgan, A., 1940; Plummer, F. B., 1944d; Schuchert, 1935a.

Concretions: Loving, 1944.

Geothermal data: Lowman, 1934.

Ground water: De Sitter, 1947; Fash, 1934; George, W. O., 1943; Horton, 1944; Liddle, 1937; Lowman, 1934; Plummer, F. B., 1946; Price, W. A., 1935.

Oil and gas: Clark, S. K., 1944; Easton, 1936; Flood, 1941; Liddle, 1937; Ruiz, 1936; Wendlandt, 1946.

Paleobotany: Adkins, 1933a.

Paleontology: Adkins, 1933a; Bailey, 1945; Bergquist, 1949; Cushman, 1946b; Dunkle, 1948; Loving, 1944; Tappan, 1941; Wells, 1947.

Porosity: Rhea, 1940.

Radioactivity measurement: Bell, K. G., 1940.

Stratigraphy: Adkins, 1933a; Bailey, 1945; Bergquist, 1949; Dallas Petroleum Geologists, 1941; Denison, 1933; Liddle, 1937; Loving, 1944; Lozo, 1948; Scott, G., 1933; Stenzel, 1939a.

Structure: Bredberg, 1934.

Woodbine-Eagle Ford contact, alunite: Stephenson, L. W., 1946a.

Yucca bed: Smith, J. F., 1941a.

Stratigraphy: Adkins, 1933a; Huffington, 1943; Smith, J. F., 1940a.

Cretaceous—Continued

Unconformities: Adkins, 1936; Albritton, 1950; Bailey, 1945.

Crinoidea. *See* Paleontology.

Crockett County. *See also* Fort Lancaster platform; Reagan uplift.

Cross section: Page, 1940.

Geophysics: Gillin, 1946.

Ground water: Berger, 1934; Broadhurst, 1949.

Meteorite: Barnes, V. E., 1940a.

Oil and gas. *See* Todd and World Powell fields under Oil and gas.

Oil field waters: Berger, 1934.

Potash: Cunningham, 1935, 1936.

Crockett member. *See* Tertiary strata and rocks.

Crocodylia. *See* Paleontology.

Crosby County. *See also* Crosbyton anomaly.

Blanco beds: Evans, G. L., 1948.

Diatomaceous earth: Baker, C. L., 1935c; Evans, G. L., 1941a, 1944b, 1946d.

Geophysics: Barton, D. C., 1944a; Hoskinson, 1935; McLemore, 1942.

Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.

Paleontology: Case, E. C., 1943; Evans, G. L., 1941a; McNulty, 1941a; Meade, 1945; Sawin, 1941a; Sellards, 1940f; Stirton, 1936.

Well records. *See* Ground water, above.

Crosbyton anomaly: Barton, D. C., 1944a; Hoskinson, 1935; McLemore, 1942.

Cross Cut sand. *See* Pennsylvanian strata.

Crossen trachyte. *See* Tertiary strata and rocks.

Cross sections. *See* specific counties; general areas.

Crustacea. *See* Paleontology.

Crystal Falls limestone. *See* Pennsylvanian strata.

Cuchillo formation. *See* Cretaceous strata.

Cuero formation. *See* Tertiary strata and rocks.

Culberson County. *See also* Apache Mountains; Beach

Mountain; Bone Spring flexure; Carrizo Mountains; Chispa Mountains; Chispa Summit; Delaware Mountains; Guadalupe Mountains; Rustler Springs area; Salt basin; Sierra Diablo; Van Horn Mountains; Van Horn uplift; Wylie Mountains.

Barite: Evans, G. L., 1946a.

Caves: Ayer, 1936; Jackson, 1948.

Copper: Evans, G. L., 1943; Sample, 1945.

Cross sections: Doherty, 1938; West Texas Geol. Soc., 1949.

Dolomite: Weitz, 1942.

Feldspar: Holt, 1947.

Field trip: West Texas Geol. Soc., 1939.

Ground water: Broadhurst, 1949.

Gypsum: Moyer, 1939.

Maps, geologic: Darton, 1933; Evans, G. L., 1946; King, P. B., 1935, 1940, 1944, 1944a, 1948, 1949.

Mica: Holt, 1947.

Oil and gas: Wheeler, 1947.

Paleobotany: Johnson, J. H., 1942a, 1949.

Paleontology: Ayer, 1936; Bridge, 1940; Cooper, G. A., 1946a; Girty, 1934; Miller, A. K., 1945.

Silver: Sample, 1945.

Soils: Carter, W. T., 1934.

Sulfur: Baker, C. L., 1935; Evans, G. L., 1946; Sellards, 1948.

Well records: Broadhurst, 1949; Maley, 1945; King, P. B., 1949.

Zinc: Baker, C. L., 1935b.

Curry clay. *See* Pennsylvanian strata.

Custer formation. *See* Permian strata; Triassic strata.

Cutoff shaly member. *See* Permian strata.

Cycads. *See* Paleobotany.

- Dagger Flat sandstone. *See* Cambrian strata.
- Dallam County.
- Basement rocks: Patton, 1947.
 - Cross section: Edson, 1947.
 - Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.
 - Meteorites: Barnes, V. E., 1940a.
 - Well records. *See also* Ground water, above. Patton, 1947.
- Dallas County.
- Channel fillings, Austin formation: Ham, 1941.
 - Faults: Blakemore, 1939a; Meyer, 1944.
 - Geology, general: Dallas Petroleum Geologists, 1941; Richards, A., 1948.
 - Geomorphology: Blakemore, 1939a; Dallas Petroleum Geologists, 1941; Foscue, 1936; Rich, 1934.
 - Ground water: George, W. O., 1943; Sundstrom, 1948; Texas State Bd. Water Engrs.
 - Maps, geologic: Blakemore, 1939a; Dallas Petroleum Geologists, 1941; Richards, A., 1948.
 - Paleontology: Cushman, 1940a; Shuler, 1934, 1947, 1950; Welles, 1949.
 - Septaria, Eagle Ford strata: Litsey, 1942.
 - Soils: Dallas Petroleum Geologists, 1941.
 - Stratigraphy: Stephenson, L. W., 1937a.
 - Terraces (stream): Kelsey, 1935; Pattillo, 1940; Shuler, 1935.
 - Well records. *See also* Ground water, above. Dallas Petroleum Geologists, 1941.
- Davis Mountains, Brewster, Jeff Davis, and Presidio counties. *See also* Mitre Peak area.
- Canyons: Schoffelmayer, 1941.
 - Clay, kaolin: Baker, C. L., 1935c; Vogel, 1942.
 - Field trip: Goldich, 1948.
 - Historical geology: Albritton, 1939.
 - Igneous rocks: Ives, R. L., 1941; Jones, C. T., 1938.
 - Maps, geologic: Albritton, 1939; Jones, C. T., 1938.
 - Meteorite: Barnes, V. E., 1940a; Nininger, 1936.
 - Rutile: Vogel, 1942.
 - Soils, paleoclimate: Bryan, K., 1943.
 - Stratigraphy: Albritton, 1939; Huffington, 1941b; Jones, C. T., 1938.
 - Structure: Baker, C. L., 1935a.
 - Wind-polished rocks: Bryan, K., 1942a.
- Davis sand. *See* Tertiary strata and rocks.
- Dawson County.
- Cross section: Dickey, 1940.
 - Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.
 - Paleontology: Figgins, 1933.
 - Well records. *See* Ground water, above.
- Deaf Smith County.
- Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.
 - Meteorite: Barnes, V. E., 1940a.
 - Well records: Texas State Bd. Water Engrs.
- Decapoda. *See* Paleontology.
- Deese formation. *See* Pennsylvanian strata.
- Deformation. *See* Structure.
- Delaware basin, west Texas. *See also* comprising counties. Sheldon, W., 1940.
- Cross sections: Thompson, W. C., 1937; West Texas Geol. Soc., 1949.
 - Evaporites: Adams, J. E., 1944a; Cunningham, 1935; Kroenlein, 1939; Lang, W. B., 1933, 1941.
 - Geology, general: Haigh, 1950.
 - Geophysics: Hoylman, 1950; McFadden, 1950.
 - Ground water: Morgan, A. M., 1942.
 - Historical geology: Adams, J. E., 1936, 1944a; King, P. B., 1934.
 - Sedimentation: King, P. B., 1934, 1948; King, R. H., 1947.
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 - Structure: King, P. B., 1935.
- Delaware Mountain formation. *See* Permian strata.
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 - Structure: Baker, C. L., 1935a.
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- Del Rio clay. *See* Cretaceous strata.
- Delta County.
- Field trip: East Texas Geol. Soc., 1945a.
 - Map, geologic: Stephenson, L. W., 1941a.
 - Paleontology: Cushman, 1940b; 1940d.
 - Stratigraphy: Ellisor, 1934.
- Deltas. *See* Geomorphology.
- Dennis Bridge limestone. *See* Pennsylvanian strata.
- Denton County.
- Alunite: Stephenson, L. W., 1946a.
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 - Paleontology: Caster, 1945; Constant, 1939; Cushman, 1936c, 1940a; Dunkle, 1948; Kirkland, 1941; Loeblich, 1941; Lozo, 1944; Stephenson, L. W., 1944; Tappan, 1940; Wells, 1947.
 - Well records: Bergquist, 1949; Sundstrom, 1949.
- Denton formation. *See* Cretaceous strata.
- Deserts. *See* Geomorphology.
- Devil Ridge area, Hudspeth County: Smith, J. F., 1940a.
- Devils River limestone. *See* Cretaceous strata.
- Devil's Sinkhole. *See* Caves and caverns.
- Devonian.
- Axis, maximum deposition: Barton, J. M., 1945.
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 Percha shale.
 Paleontology: Sellards, 1933b.
 Stratigraphy: Sellards, 1933b.
 Pillar Bluff limestone.
 Paleontology: Barnes, V. E., 1946c, 1947.
 Stratigraphy: Barnes, V. E., 1946c, 1947.
 Stribling formation: Cloud, 1946.
 Paleontology: Barnes, V. E., 1946c, 1947; Cloud, 1948b.
 Stratigraphy: Barnes, V. E., 1945, 1946c, 1947; Cloud, 1948b.
 Woodford shale.
 Paleobotany: Ellison, 1950.
 Paleontology: Ellison, 1950.
 Stratigraphy: Ellison, 1950.
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 Paleontology: Barnes, V. E., 1947.
 Stratigraphy: Barnes, V. E., 1947.
 Unconformities: Arick, 1936.
 Dewey Lake formation. *See* Permian strata.
 DeWitt County.
 Ground water: Broadhurst, 1950; Texas State Bd. Water Engrs.
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 Oil and gas. *See* Slick-Wilcox field under Oil and gas.
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 Well records. *See also* Ground water, above. Rinehart, 1942.
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 Paleontology: Cloud, 1948.
 Precambrian, underground position: Sellards, 1933b.
 Stratigraphy: King, P. B., 1934; Sellards, 1933b.
 Structure: Baker, C. L., 1935a; King, P. B., 1935; Trace, 1942.
 Diastems, Travis County: Frizzell, 1950a.
 Diatomite or diatomaceous earth: Baker, C. L., 1935c, 1944; Evans, G. L., 1941a, 1944, 1944b, 1946d, 1946e; Sellards, 1946b; Stenzel, 1948e.
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 Anhydrite: Roth, 1942.
 Basement rocks: Patton, 1947.
 Diatomite: Evans, G. L., 1944b, 1946d.
 Ground water: Broadhurst, 1949.
 Meteorite: Barnes, V. E., 1940a.
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 Well records: Broadhurst, 1949; Patton, 1947.
 Dickerson member. *See* Pennsylvanian strata.
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 Dimmit County. *See also* Chittim arch.
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 Road material: Evans, G. L., 1941a.
 Soil survey: Smith, H. M., 1943.
 Stratigraphy: Sandidge, 1946.
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- Dimple limestone. *See* Pennsylvanian strata.
 Dinosaurs. *See* Paleontology, tracks, trails, burrows, borings.
 Discorbis zone. *See* Tertiary strata and rocks.
 Dockum group. *See* Triassic strata.
 Dog Bend limestone. *See* Pennsylvanian strata.
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 Dog Creek shale. *See* Permian strata.
 Dogs. *See* Paleontology, Carnivora.
 Dolomite: Atkinson, B. 1948; Baker, C. L., 1935c, 1944; Barnes, V. E., 1943a, 1944; Cloud, 1946, 1948a, 1948b; Cunningham, 1935a; Imbt, W. C., 1947; Jones, T. S., 1944; Kramer, 1934; Sellards, 1946b; Stenzel, 1948i; Warren, 1946a; Weitz, 1942.
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 Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.
 Igneous rock, deep well: Patton, 1945a.
 Paleontology: Johnston, C. S., 1937a, 1937e, 1938, 1941; McAnulty, 1941a; Stirton, 1936, 1939.
 Well records. *See also* Ground water, above. Patton, 1945a.
 Doreheat member. *See* Jurassic strata.
 Double Mountain group. *See* Permian strata.
 Dozier Mounds dolomite. *See* Triassic strata.
 Dreikanter. *See* Frosting, polishing, and faceting.
 Drilling clay. *See* Clay.
 Dubose sands and clays. *See* Tertiary strata and rocks.
 Duck Creek formation. *See* Cretaceous strata.
 Duff formation. *See* Tertiary strata and rocks.
 Dunes. *See* Geomorphology.
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 Caliche: Sayre, 1936a.
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 Maps, geologic: Livingston, 1936a; Sayre, 1936a; Sheldon, I. R., 1933a; Trenchard, 1935.
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 Salt domes. *See* Palangana dome under Salt domes.
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 Eagle Ford shale and clay. *See* Cretaceous strata.
 Eagle Mills formation. *See* Jurassic strata.
 Eagle Mountains, Hudspeth County.
 Fluorspar: Dennis, 1946; Evans, G. L., 1943a, 1946c; Gillerman, 1946, 1948.
 Igneous rocks: Gillerman, 1946, 1948; Smith, J. F., 1941a.
 Structure: Baker, C. L., 1935a; Smith, J. F., 1941a.
 Earth temperature. *See* Geothermal data.

- Earthquakes. *See also* Microseisms. Burr, 1943a; Byerly, 1934; Sellards, 1935c, 1936, 1940c; Sheets, 1947.
- East-central Texas. *See also* comprising counties.
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Stratigraphic correlations: Stephenson, L. W., 1938a.
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Reefs: Brodie, 1949a.
Stratigraphy: King, P. B., 1942; Lewis, F. E., 1941; West Texas Geol. Soc., 1949.
- Eastland County.
Clay, ceramic: Pence, 1949a; Plummer, F. B., 1949.
Field trips: Ardmore Geol. Soc., 1936; Scott, G., 1941.
Geothermal data: Barnes, V. E., 1946d.
Ground water: Sundstrom, 1949; Texas State Bd. Water Engrs.
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Oil and gas. *See* Cisco Lake and Kleiner Mississippi fields under Oil and gas.
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Well records: Texas State Bd. Water Engrs.
- Eastland Lake formation. *See* Pennsylvanian strata.
- Eastland sandstone. *See* Pennsylvanian strata.
- East Mountain shale. *See* Pennsylvanian strata.
- East Texas. *See also* comprising counties; East Texas basin; Northeast Texas; Sabine uplift; Trinity River tributary area; Tyler basin.
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Field trips: Houston Geol. Soc., 1938; Wrather, 1933.
Geophysics: Campbell, J. L. P., 1944.
Geothermal data: Francis, 1940; Lowman, 1934; Nichols, 1946.
Ground water: De Sitter, 1947; Horton, 1944; Plummer, F. B., 1946; Price, W. A., 1935; Sundstrom, 1948.
Iron ore. *See* Iron deposits and minerals.
Maps.
Geologic: Eckel, 1935a; Liddle, 1937; Plummer, F. B., 1933b; Wrather, 1933.
Structural: Spooner, 1939.
Mounds: Rich, 1934.
Oil and gas. *See* Oil and gas, general areas.
Paleontology: Calahan, 1939; Imlay, 1941; Jones, D. J., 1947; Lozo, 1943a; Quesenberry, 1936.
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Pre-Cretaceous surface: Moss, 1936.
Salt domes. *See* Salt domes.
Soil: Chambers, 1941.
Stratigraphy: Hazzard, 1946, 1947; Imlay, 1942, 1943, 1945; Jones, W. V., 1945; Moody, 1946; Plummer, F. B., 1933b; Rouse, 1944; Stenzel, 1935a, 1936c; Swain, 1944; Thomas, N. L., 1934, 1935; Wasem, 1943.
Structure: Bredberg, 1934; Oil and Gas Jour., 1942h.
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Cross section: Thompson, W. C., 1937.
- East Texas basin, etc.—Continued
Description: Wrather, 1933.
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Reduction of sediments: Trask, 1936.
Stratigraphy: Getzender, F. M., 1943; Liddle, 1937.
Structure: Baker, C. L., 1935b; Liddle, 1937; Ries, 1937.
- Echinoiden. *See* Paleontology.
- Ector chalk. *See* Cretaceous strata.
- Ector County.
Cross sections: Ellison, 1950; Fritz, 1940; West Texas Geol. Soc., 1949.
Diatomite: Evans, G. L., 1944b, 1946d.
Geophysics: Beers, 1940.
Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.
Insoluble residues: Cole, 1940a.
Map, structural: Rahmes, 1950.
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Stratigraphic correlation: Schweers, 1949.
Well records. *See* Ground water, above.
- Edens sand. *See* Cretaceous strata.
- Edentata. *See* Paleontology.
- Edwards arch, Edwards and Kimble counties: Sellards, 1935c.
- Edwards County. *See also* Edwards arch; Val Verde basin.
Caves: White, P. J., 1948, 1948a.
Ground water: Broadhurst, 1949; Sayre, 1942; Texas State Bd. Water Engrs.
Stratigraphy: Curry, W. H., 1934.
Well records: Texas State Bd. Water Engrs.
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- Edwards Plateau. *See also* comprising counties; Val Verde basin.
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Canyons: Schoffelmayer, 1941.
Fredericksburg-Washita contact: Curry, 1934.
Geophysics: Gillin, 1946; Harris, Sidon, 1946, 1946a.
Ground water: Baker, C. L., 1935c.
Oil and gas. *See* Oil and gas, general areas.
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Structural features: Sellards, 1935c.
Topography, pre-Cretaceous: Jager, 1942.
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- Electrical logging. *See* Geophysics.
- Elephants. *See* Paleontology, Proboscidea.
- Elevations: Marmer, 1949; Staack, 1937, 1941, 1941a, 1941b, 1942.
- Elledge sandstone. *See* Cretaceous strata.
- Ellenburger limestone. *See* Cambrian strata; Ordovician strata.
- Ellis County.
Foraminiferal zonation: Albritton, 1937b.
Ground water: Sundstrom, 1948, 1948a.
Well records: Sundstrom, 1948.

Elm Creek limestone. *See* Permian strata.

El Paso County. *See also* Franklin Mountains; Hueco Bolson; Hueco Mountains.

Caliche: Sayre, 1945.

Caves: Cosgrove, 1948; Jackson, 1948.

Cross section: West Texas Geol. Soc., 1949.

Geology, general: Sayre, 1945.

Geophysics: Sayre, 1937.

Ground water: Broadhurst, 1949; Sayre, 1937, 1938, 1945, 1949; Scalapino, 1949; Scofield, 1938.

Maps, geologic: Cloud, 1948b; Darton, 1933; King, P. B., 1945; West Texas Geol. Soc., 1946.

Meteorite: Barnes, V. E., 1940a.

Paleontology: Bridge, 1940; Cloud, 1948; Girty, 1937, 1939; Ikins, 1940; Nelson, L. A., 1937, 1947; Thompson, M. L., 1948.

Soil survey: Carter, W. T., 1934.

Stratigraphy: Kirk, 1934; Sellards, 1933b.

Unconformities: Arick, 1936; Baker, C. L., 1936.

Well records: Broadhurst, 1949; Sayre, 1945.

El Paso limestone. *See* Ordovician strata.

El Reno formation. *See* Permian strata.

Eocene series. *See* Tertiary strata and rocks.

Equidae. *See* Paleontology, Perissodactyla.

Erath County.

Coal, analyses: Fieldner, 1946.

Ground water: Sundstrom, 1949.

Paleobotany: Ball, 1936, 1937, 1939.

Stratigraphy: Nickell, C. O., 1939a.

Structure: Nickell, C. O., 1939a.

Well records: Sundstrom, 1949.

Erna sand. *See* Cambrian strata.

Escondido formation. *See* Cretaceous strata.

Eskota dolomite. *See* Triassic strata.

Espy formation. *See* Cretaceous strata.

Etholen conglomerate. *See* Cretaceous strata.

Euless clays. *See* Cretaceous strata.

Evaporites. *See also* Anhydrite; Potash; Salt. Adams, J. E., 1944a; Baker, C. L., 1935b; Bates, 1942; Hazzard, 1947a; Kroenlein, 1939; Lang, W. B., 1935; Sellards, 1946b; Smith, H. L., 1933.

Faceting. *See* Frosting, polishing, and faceting.

Falcon sandstone. *See* Tertiary strata and rocks.

Falls City shale. *See* Tertiary strata and rocks.

Falls County.

Clay: Hoeman, 1945; Pence, 1948.

Geology, general: U. S. Dept. Agriculture, 1942.

Gravel, road material: Hatch, 1936.

Ground water: Sundstrom, 1948.

Map, geologic: Stephenson, L. W., 1941a.

Paleontology: Leriche, 1942; Murray, L. T., 1940; Stephenson, L. W., 1941a.

Sand, industrial: Hoeman, 1945.

Soils: Beck, 1936; U. S. Dept. Agriculture, 1942.

Terrace (stream): Hatch, 1936.

Stratigraphy: Ellisor, 1934; Gardner, J. A., 1935.

Well records: Sundstrom, 1948.

Fannin County. *See also* Preston anticline.

Alunite: Stephenson, L. W., 1946a.

Field trip: East Texas Geol. Soc., 1945a.

Ground water: Sundstrom, 1948.

Maps, geologic and structural: Bergquist, 1949.

Paleontology: Cushman, 1940a; Evans, G. L., 1941a; McNulty, 1941a; Sellards, 1940f.

Soil survey: Templin, 1946.

Stratigraphy: Ellisor, 1934; Stephenson, L. W.,

Fannin County—Continued

1937a.

Well records: Bergquist, 1949; Sundstrom, 1948.

Fant member. *See* Tertiary strata and rocks.

Fashing clays. *See* Tertiary strata and rocks.

Faults and fractures. *See also* Comal, Concho, Dallas, Lavaca, Lee, Leon, Nueces, Refugio, Val Verde, and Webb counties.

Antrim fault zone, Houston County: Stenzel, 1936.

Balcones fault zone: Anonymous, 1934; Barbour, G. B., 1942; Bryan, F., 1933, 1936; Cuyler, 1940a; Damon, 1940a; Miser, 1934a; Moody, 1949; Perry, 1940; Roemer, 1935; Schuchert, 1935a; Sellards, 1935c; Sheets, 1947; Thompson, W. C., 1937; Tuttle, 1946a; Weeks, 1945b.

Central Texas, fracture systems: Melton, 1935a.

Devil Ridge area, Hudspeth County: Smith, J. F., 1940a.

Ellenburger, central Texas: Cloud, 1948b.

Guadalupe Mountains: King, P. B., 1948.

Gulf Coast area: Campbell, F. F., 1939; Kornfeld, J. A., 1933; Meyer, 1944; Price, W. A., 1936; Sheets, 1947.

Llano fault system: Sellards, 1935c.

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Millican fault, Brazos and Grimes counties: Renick, 1936.

Northeast Texas fault line: Hager, 1936.

Oil and gas. *See* Oil and gas, general areas.

Quitman Mountains, Hudspeth County: Huffington, 1943.

Reynosa plain, south Texas: Barton, D. C., 1933a.

Singleton faults, Grimes County: Renick, 1936.

Southwest Texas: Price, W. A., 1936; Quarles, 1950.

Terlingua district: Thompson, G. A., 1950.

Terlingua fault: Baker, C. L., 1935a.

Trans-Pecos: King, P. B., 1935.

Fayette County. *See also* Flatonia nose.

Building stone: Sedlmayer, 1939.

Clay: Hagner, 1939; Schoch, 1938a; Sedlmayer, 1939.

Cross section: Deussen, 1939.

Field trip: Stenzel, 1947.

Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.

Lignite: Sedlmayer, 1939.

Maps, geologic: Bowling, 1933; Darton, 1933; Renick, 1936.

Meteorites: Barnes, V. E., 1940a, 1940e; Sedlmayer, 1939.

Oil and gas. *See* Arnim, Cistern, and Waldeck fields under Oil and gas.

Paleontology: MacNeil, 1935.

Road material (limestone and caliche): Sedlmayer, 1939.

Stratigraphy: Bowling, 1933.

Volcanic ash (pumicite): Sedlmayer, 1939.

Well records. *See also* Ground water, above. Rinehart, 1942.

Fayette sandstone. *See* Tertiary strata and rocks.

Feldspar: Baker, C. L., 1935b; Barnes, V. E., 1946b; Chelf, 1942a; Evans, G. L., 1944, 1946c; Holt, 1947;

Feldspar—Continued

Huseman, 1947; Redfield, 1942a; Sellards, 1940b, 1946b.

Ferns. *See* Paleobotany.

Fertilizer materials. *See also* Acidic sulfur earth; Glauconite (greensand); Guano; Gypsum; Limestone; Magnesite; Peat; Potash; Sulfur. Sellards, 1946b.

Field trips. *See also* specific counties and areas. Abilene Geol. Soc., 1946, 1948, 1948a, 1949, 1950; Ardmore Geol. Soc., 1936, 1937; Barnes, V. E., 1940h, 1947b, 1948a; Bullard, 1939a; Corpus Christi Geol. Soc., 1948, 1949; Cuyler, 1940a, 1940b; Dallas Petroleum Geologists, 1941; Damon, 1940a; Darton, 1933, 1933a; East Texas Geol. Soc., 1945a; Goldich, 1948, 1948a, 1949a; Graves, 1949; Houston Geol. Soc., 1938, 1941a; McWhirter, 1940; Maxwell, R. A., 1949; Miles, 1941; Moody, 1946; Nelson, L. A., 1950; Panhandle Geol. Soc., 1949; Plummer, F. B., 1939, 1940c; Price, W. A., 1945b; Rolshausen, 1950; Roth, 1940; San Antonio Geol. Soc., 1933, 1934, 1936, 1937; Scott, G., 1933, 1941; Shreveport Geol. Soc., 1949; Smith, J. F., 1949; South Texas Geol. Soc., 1937, 1937a, 1939, 1940, 1941, 1947, 1948, 1949; Stenzel, 1940g, 1947; West Texas Geol. Soc., 1939, 1940a, 1941b, 1946, 1946a, 1947, 1949b, 1949c, 1949d, 1950; Wrathner, 1933.

Filtering clay. *See* Clay.Finis shale. *See* Pennsylvanian strata.Finlay limestone. *See* Cretaceous strata.

Finlay Mountains, Hudspeth County.

Paleoclimate: Albritton, 1950; Ham, 1943.

Paleontology: Ham, 1943; Miller, A. K., 1945b.

Slope stability: Campbell, T. N., 1941; Howard, B. R., 1941.

Stratigraphy: Albritton, 1941, 1949; King, P. B., 1934, 1942.

Structure: Albritton, 1941; Baker, C. L., 1935a.

Wind-polished rocks: Bryan, K., 1942a.

First Street terrace deposit. *See* Quaternary strata and deposits.Fish bed conglomerate. *See* Cretaceous strata.

Fisher County.

Celestite: Dennis, 1947; Evans, G. L., 1942, 1946b; Stenzel, 1948f.

Cross sections: Dickey, 1940; Doherty, 1933; Mohr, 1939; Page, 1940; West Texas Geol. Soc., 1949.

Geophysics: Kerr, 1950.

Ground water: Broadhurst, 1949.

Gypsum: Dunn, 1948.

Maps, geologic: Evans, G. L., 1942, 1946b; Morley, 1937; Roth, 1937.

Oil and gas. *See also* Eskota, Howard, Pardue, Roby, Rotan, Round Top, and Royston fields under Oil and gas. Deegan, 1949g.

Reef porosity: Kerr, 1950.

Stratigraphy: Roth, 1937.

Fishes. *See* Paleontology, Pisces.Fisk formation. *See* Permian strata.

Flatonia nose, Fayette and Gonzales counties: Renick, 1936.

Fleming group. *See* Tertiary strata and rocks.Flint pebbles. *See* Grinding pebbles.Flower-pot shale. *See* Permian strata.

Floyd County.

Basement rocks: Patton, 1947.

Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.

Floyd County—Continued

Meteorite: Barnes, V. E., 1940a.

Oil and gas. *See* Arick field under Oil and gas.

Well records. *See also* Ground water, above. Patton, 1947.

Fluorspar: Baker, C. L., 1935b; Barnes, V. E., 1943b; Cullison, 1944; Dennis, 1946; Evans, G. L., 1943a, 1946c; Gillerman, 1946, 1948; King, P. B., 1948; Sellards, 1940b, 1946b.

Foard County.

Cross section: Mohr, 1939.

Ground water: Sundstrom, 1949; Texas State Bd. Water Engrs.

Map, geologic: Thompson, W. C., 1937a.

Well records. *See* Ground water, above.

Foraminifera. *See* Paleontology.

Fort Bend County.

Cross section: Deussen, 1939.

Geophysics: Barton, D. C., 1944; Eby, 1935; Lewis, W. B., 1948.

Ground water: Foster, M. D., 1939; Sundstrom, 1948; Texas State Bd. Water Engrs.; White, W. N., 1939, 1942, 1944.

Map, geologic: Foster, M. D., 1939.

Meteorite: Barnes, V. E., 1940a; Fouts, 1940.

Oil and gas. *See also* Big Creek, Blue Ridge, Clodine, Katy, Lochridge, McCrary, Moore's, Nash, Needville, Rosenberg, Sugarland, and Thompson fields under Oil and gas. Lasky, 1950; Sterrett, 1944.

Salt domes. *See* Big Creek, Blue Ridge, Long Point, Nash, Orchard, Sugarland, and Thompson domes under Salt domes.

Sulfur: Baker, C. L., 1935.

Well records: Sundstrom, 1948; Texas State Bd. Water Engrs.; White, W. N., 1939, 1942, 1944.

Fort Lancaster platform, Crockett, Pecos, and Terrell counties: Lewis, F. E., 1941.

Fort Peña formation. *See* Ordovician strata.Fort Sill formation. *See* Cambrian strata.

Fort Stockton arch, Pecos County: Lewis, F. E., 1941.

Fort Worth basin, syncline, north-central Texas: Adkins, 1933a; Cheney, 1947a; Harris, R. W., 1941; Ingram, R., 1942a; Moorhead, 1950; Sanford, 1940b.

Fort Worth limestone. *See* Cretaceous strata.Forty-one-A sand. *See* Tertiary strata and rocks.Four Way Ranch sand. *See* Tertiary strata and rocks.Fractures. *See* Faults and fractures.

Franklin County.

Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.

Oil and gas. *See* New Hope and Talco fields under Oil and gas.

Stratigraphy: Gardner, J. A., 1935.

Well records: Sundstrom, 1948; Texas State Bd. Water Engrs.

Franklin Mountains, El Paso County.

Field trips: Darton, 1933a; Nelson, L. A., 1950; West Texas Geol. Soc., 1946.

Paleontology: Bridge, 1940; Cloud, 1948; Girty, 1939; Nelson, L. A., 1937, 1947.

Quartzites, age: Keyes, 1940a.

Stratigraphy: Cloud, 1948b; Darton, 1933a; King, P. B., 1934b; Nelson, L. A., 1940.

Structure: Adams, J. E., 1944; Baker, C. L., 1935a.

Franklin Mountains—Continued

Unconformites: Arik, 1936; Baker, C. L., 1936.

Frazier sand. *See* Tertiary strata and rocks.

Fredericksburg group. *See* Cretaceous strata.

Freestone County.

Clay: Pence, 1948; Whitcomb, 1939.

Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.

Lignite: Whitcomb, 1939.

Oil and gas. *See* Wortham field under Oil and gas.

Paleontology: Evans, G. L., 1941a; McAnulty, 1941a; Stenzel, 1943c.

Sand, industrial: Hoeman, 1946.

Salt domes. *See* Oakwood dome under Salt domes.

Stratigraphy: Gardner, J. A., 1935.

Well records: Sundstrom, 1948; Texas State Bd. Water Engrs.

Frijole shale. *See* Permian strata.

Frio County.

Cross section: South Texas Geol. Soc., 1949a.

Geology, general: Lonsdale, 1935.

Ground water: Broadhurst, 1950; Lonsdale, 1935.

Map, geologic: Lonsdale, 1935.

Oil and gas. *See* Pearsall field under Oil and gas.

Petrographic analyses: Lonsdale, 1935.

Soils: Beck, 1934.

Well records. *See also* Ground water, above. Rinehart, 1942.

Frio formation. *See* Tertiary strata and rocks.

Frosting, polishing, and faceting.

Dreikanter, Hickory sandstone: Barnes, V. E., 1940f.

Frosted sand grains: Adams, H. H., 1943.

Grooves, Permian limestone: Ray, 1942b.

Polished rocks: Adams, J. E., 1945; Bryan, K., 1942a; Lang, W. B., 1941a, 1948; Ray, 1946.

Polished sand grains: Adams, H. H., 1943.

Fuller's earth. *See* Clay.

Fusselman limestone. *See* Silurian strata.

Fusulina zone. *See* Pennsylvanian strata.

Fusulinidae. *See* Paleontology.

Gaines County.

Anthropology: Fritz, 1940a.

Cross sections: Ellison, 1950; Fritz, 1940.

Geochemistry: McDermott, 1940.

Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.

Oil and gas. *See* Cedar Lake, Seminole, and Wasson fields under Oil and gas.

Stratigraphy: Jones, T. S., 1944.

Well records. *See* Ground water, above.

Galena. *See* Lead minerals.

Galveston County.

Geochemistry: Foster, M. D., 1940; Short, E. H., 1943.

Geophysics: Halbouty, M. T., 1936; Swan, 1942.

Ground water: Barnes, B. A., 1948; Foster, M. D., 1939, 1940; Sundstrom, 1948; Texas State Bd. Water Engrs.; Turner, S. F., 1934a; White, W. N., 1939.

Map, geologic: Foster, M. D., 1939.

Oil and gas. *See also* Alta Loma, Caplen, Dickinson, Green Lake, High Island, Hitchcock, and League City fields under Oil and gas. Short, E. H., 1943.

Recent sea level changes: Marmar, 1949.

Galveston County—Continued

Salt dome. *See* High Island dome under Salt domes.

Sedimentation, beach erosion: Barden, 1934.

Soils: Foster, Z. C., 1935.

Well records: Sundstrom, 1948; Texas State Bd. Water Engrs.; White, W. N., 1939.

Gaptank formation. *See* Pennsylvanian strata.

Garceno sandstone. *See* Tertiary strata and rocks.

Garner formation. *See* Pennsylvanian strata.

Garnet: Baker, C. L., 1935b; Barnes, V. E., 1942.

Garza County.

Ground water: Broadhurst, 1949.

Paleontology: Anonymous, 1935.

Stratigraphy: Evans, G. L., 1945.

Well records: Broadhurst, 1949.

Gastropoda. *See* Paleontology.

Gatesville formation. *See* Cretaceous strata.

Gay Hill terrace deposit. *See* Quaternary strata and deposits.

Gem minerals. *See also* Agate; Chalcedony; Garnet; Jasper; Opal; Topaz; Turquoise. Baker, C. L., 1935b; Sellards, 1940b.

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Electronic hydrocarbon determination: Balter, 1950.

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Harris County, Eureka field: Karly, 1939.

Jones County, Hardy field: Ransone, 1947.

Nueces County: Karly, 1939.

Refugio County, La Rosa field: McDermott, 1940.

San Patricio County: Howard, W. V., 1940.

Geography: Johnson, E. H., 1941; Roemer, 1935; Shuler, 1936.

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Basins: Evans, G. L., 1945; Germond, 1940; Price, W. A., 1944a, 1947.

Canyons: Schoffelmayer, 1941.

Craters (air blowers): Price, W. A., 1934.

Deltas: Carsey, 1950; Price, W. A., 1936b, 1938a, 1939, 1942, 1945a.

Deserts: Price, W. A., 1944.

Drainage: Barton, D. C., 1933a; Blakemore, 1939a.

Dunes (clay, sand): Fritz, 1940a; Huffington, 1941b; Huffman, 1949a; Melton, 1940; Price, W. A., 1933; Sidwell, 1939; Tanner, 1939.

Erosional soil hillocks: Melton, 1934.

Facets (solution): Smith, J. F., 1941.

Furrows (solution): Smith, J. F., 1941.

Guadalupe Mountains: King, P. B., 1948.

Gulf Coastal area: Barton, D. C., 1933a, 1937b; Bullard, 1942; Carsey, 1950; Collier, 1950;

Dietz, 1945; Doering, 1935; Fenneman, 1938; Gardner, J. A., 1935; Huffman, 1949a; Koons, 1948; Meyer, 1939; Price, W. A., 1933, 1934,

Geomorphology—Continued**Gulf Coastal area—Continued**

1936a, 1936b, 1938b, 1938c, 1941, 1942, 1943, 1947, 1947a, 1949; Ritz, 1936.

Gulf Coast geosyncline: Russell, R. J., 1938.

High Plains: Evans, G. L., 1945; Germond, 1940; Huffington, 1941b; Mansfield, 1935; Melton, 1940; Patton, 1935; Plummer, F. B., 1933b; Price, W. A., 1944, 1944a; Roth, 1937; Sidwell, 1939; Stainbrook, 1941a; Tanner, 1939; Watts, 1939.

Influence on early development settlement: Shuler, 1936.

Lakes (including alkali lakes): Baker, C. L., 1935b; Burr, 1943a; Evans, G. L., 1945; Germond, 1940; Mansfield, 1935; Patton, 1935; Price, W. A., 1936b; Watts, 1939.

Llano area: Plummer, F. B., 1950.

Mapping: Price, W. A., 1939.

Marathon region: King, P. B., 1938b.

Mounds (mima, pimple, sand, soil): Dietz, 1945; Gardner, J. A., 1935; Koons, 1943; Melton, 1935; Price, W. A., 1933, 1949; Rich, 1934.

Plains (post-Recent): Barton, D. C., 1937b.

Resacas: Price, W. A., 1936b.

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Sierra Blanca area: Smith, J. F., 1941.

Sinkholes (including karst landscape): Blake-more, 1939; George, W. O., 1947; Price, W. A., 1940; Roth, 1937; White, P. J., 1948, 1948a.

Soil relationship: Price, W. A., 1945a.

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Valley development: Blank, 1947; Stainbrook, 1941a.

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Austin County, San Felipe salt dome: Lewis, W. B., 1948.

Duval County, Lomo Alto-Seven Sisters area: West, 1946.

El Paso County, location of salt water bodies: Sayre, 1937.

Fort Bend County, Long Point salt dome: Lewis, W. B., 1948.

Ground water: Barnes, B. A., 1947, 1948; Sayre, 1937.

Gulf Coast area.

Correlation: Deussen, 1935; Storm, 1937.

Exploration: Short, E. H., 1944; Storm, 1937.

Sparta-Wilcox trend: Todd, 1940.

Harris County, water wells: Rose, 1944.

Hunt County, Mexia system fault location: Hawley, 1943.

Jim Hogg County, exploration: Karcher, 1935.

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Kleberg County, Seeligson field: Deegan, 1946a.

Lubbock County, ground water: Barnes, B. A., 1948.

McMullen County, Lomo Alto-Seven Sisters area: West, 1946.

Geophysics—Continued**Electrical logging—Continued**

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Application to problems: Gillingham, 1938.

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Exploration: DeGolyer, 1935, 1936; Halbouty, M. T., 1947; Lee, F. W., 1946; Rosaire, 1936; Todd, 1938a; Weaver, 1933.

Instruments: Lee, F. W., 1934.

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Pledger field: Eby, 1935.

Brooks County, La Gloria field: Woolley, 1946.

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Mykawa structure: Eby, 1935.

South Houston salt dome oil field: Eby, 1945.

Tomball field: Eby, 1935, 1936.

Geophysics—Continued

Gravity data—Continued

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 Fannett dome: Eby, 1935.
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 Jim Hogg County, East field: Hollingsworth, 1947.
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 Liberty County.
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 Thompson, W. C., 1949.
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 Smoothing iron granite mass: Romberg, 1944.
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 Grand Saline salt dome: Peters, 1945.
 Van field: Liddle, 1937.

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 Micromagnetic prospecting: Jenny, 1940.
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 Scurry County, north Snyder area: Clayton, N., 1950a.
 Van Zandt County.

Geophysics—Continued

Magnetic data—Continued

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 Andrews County, Means field: Green, 1938.
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 Allen dome: Nettleton, 1943.
 Distribution of velocities: Swan, 1942.
 Hoskins Mound salt dome: Campbell, F. F., 1941.
 Brooks County, La Gloria field: Woolley, 1946.
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 Moss Bluff salt dome: Eby, 1935; Hoyl-man, 1946.
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 Distribution of velocities: Swan, 1942.
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 Dip reflections on faults: Campbell, F. F., 1939.
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 Tomball field: Eby, 1935, 1936.
 Index of wells shot for velocity: Swan, 1949.
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Geophysics—Continued

Seismic data—Continued

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- Kenedy County, elastic wave profile: Howell, L. G., 1940.
- Liberty County.
- Esperson dome: Thompson, W. C., 1949.
- Hardin dome: Nettleton, 1943.
- Moss Bluff salt dome: Eby, 1935; Hoylman, 1946.
- Matagorda County.
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- Hawkinsville salt dome: Howell, L. G., 1940.
- Sheppards Mott dome: Eby, 1935.
- Microseisms: Jennemann, 1949.
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- Refugio County, Refugio field: Green, 1938.
- Salt dome surveying: Wolf, A., 1947.
- San Patricio County, Odem field: McCarver, 1947.
- Scurry County, north Snyder area: Clayton, N., 1949, 1950, 1950a.
- Southwest Texas.
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- Fault interpretation: Quarles, 1950.
- Tarrant County, differential velocities: Beers, 1940.
- Van Zandt County, Van field: Liddle, 1937.
- Walker County, range of amplitudes, reflection records: Kendall, J. M., 1941.
- Webb County, fault zone: Robinson, 1945.
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- Interpretation of data: Houston Geol. Soc., 1939a.
- Telluric currents.
- Wood County, Haynesville salt dome: Boissonnas, 1948.
- Georgetown limestone. *See* Cretaceous strata.
- Geosynclines.
- Barton (Gulf Coast): Schuchert, 1935a.
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- Analysis, Crabapple Creek sample: Barnes, V. E., 1946b.
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- Stratigraphy: Barnes, V. E., 1946; Cloud, 1946, 1948b; Plummer, F. B., 1950.
- Well records. *See also* Ground water, above. McMillan, 1949b.
- Gillespie formation. *See* Cretaceous strata.
- Gilliam member. *See* Permian strata.
- Glaciation, Brewster County: Carney, 1935.
- Glasscock County.
- Cross sections: Doherty, 1938; Ellison, 1950; Page, 1940.
- Ground water: Livingston, 1944; Texas State Bd. Water Engrs.
- Historical geology: Adams, J. E., 1933.
- Map, geologic: Livingston, 1944.
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- Oil and gas. *See* Big Spring field under Oil and gas.
- Paleobotany: Adams, J. E., 1933.
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- Glasscock sand. *See* Tertiary strata and rocks.
- Glass Mountains, Brewster and Pecos counties.
- Field trips: Darton, 1933a; West Texas Geol. Soc., 1946a.
- Paleontology: Cooper, G. A., 1942, 1946, 1946a, 1950; Dunbar, 1937; Elias, 1946; Hamilton, 1942; Heritsch, 1936; Huang, 1936; Miller, A. K., 1945, 1945a; Newell, 1938a; Sohn, 1950.
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- Tectonic features: King, P. B., 1942.
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- Glauber salt. *See* Sodium sulfate.
- Glaucinite (including greensand): Baker, C. L., 1935b; Cloud, 1948a, 1948b; Eckel, 1935, 1935a, 1938; Jones, R. A., 1936; Plummer, F. B., 1933b; Sellards, 1940b, 1946b; Stenzel, 1939a, 1948k; Whitcomb, 1939a.
- Glen Rose limestone. *See* Cretaceous strata.
- Glorieta sandstone. *See* Permian strata.
- Gneiss. *See* Metamorphic rocks.
- Goat Seep limestone. *See* Permian strata.
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- Goen limestone. *See* Pennsylvanian strata.
- Goethite. *See* Iron deposits and minerals.
- Cold: Baker, C. L., 1935b; Hanna, 1941; Ross, 1935b; Sellards, 1940b, 1946b.
- Goldsmith formation. *See* Permian strata.
- Goliad County.
- Ground water: Broadhurst, 1950; Texas State Bd. Water Engrs.
- Oil and gas. *See* Slick-Wilcox field under Oil and gas.
- Paleontology: McNulty, 1941a.
- Stratigraphy: Johnson, E. L., 1933.
- Well records. *See also* Ground water, above. Rinehart, 1942.
- Goliad formation. *See* Tertiary strata and rocks.

Gonzales County. *See also* Flatonia nose.

Clay: Chelf, 1942; Evans, G. L., 1941a; Hagner, 1939; Pence, 1949.

Cross section: South Texas Geol. Soc., 1949a.

Ground water: Broadhurst, 1950; Texas State Bd. Water Engrs.

Maps, geologic: Darton, 1933; Renick, 1936.

Paleontology: Evans, G. L., 1941a; McAnulty, 1941a.

Peat bogs: Chelf, 1941a; Evans, G. L., 1941a.

Volcanic ash: Evans, G. L., 1941a.

Well records: Rinehart, 1942; Texas State Bd. Water Engrs.

Gonzales Creek shale. *See* Pennsylvanian strata.

Gonzales limestone. *See* Pennsylvanian strata.

Goodland limestone. *See* Cretaceous strata.

Gorgora shale. *See* Tertiary strata and rocks.

Gorman formation. *See* Ordovician strata.

Gouldbusk limestone. *See* Permian strata.

Government Wells sand. *See* Tertiary strata and rocks.

Graford formation. *See* Pennsylvanian strata.

Graham formation. *See* Pennsylvanian strata.

Grand Prairie region: Sellards, 1935c.

Granite. *See* Igneous rocks.

Grape Creek limestone. *See* Permian strata.

Graphite: Baker, C. L., 1935c; Barnes, V. E., 1940i; Chelf, 1943; Currier, 1943; Sellards, 1940b, 1946b.

Graptolites. *See* Paleontology, Graptolithina.

Graptolithina. *See* Paleontology.

Gravel. *See* Sand and gravel.

Gravity data. *See* Geophysics.

Grayburg formation. *See* Permian strata.

Gray County.

Geophysics: Taylor, G. L., 1948.

Ground water: Broadhurst, 1949.

Igneous rocks: Patton, 1945a; Taylor, G. L., 1948.

Meteorite: Barnes, V. E., 1940a.

Oil and gas. *See* Panhandle fields under Oil and gas.

Paleontology: McAnulty, 1941a.

Stratigraphy: Rogatz, 1939b.

Well records: Broadhurst, 1949; Patton, 1945a; Taylor, G. L., 1948.

Grayson County. *See also* Preston anticline.

Alunite: Stephenson, L. W., 1946a.

Biostratigraphic relations: Lozo, 1944.

Cross section: Gee, 1950.

Ground water: Livingston, 1945; Sundstrom, 1948.

Maps, geologic: Bailey, 1945; Bergquist, 1949.

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Stratigraphy: Bailey, 1945; Hazzard, 1939a; Lozo, 1943; Stephenson, L. W., 1937a.

Well records. *See also* Ground water, above. Bergquist, 1949.

Grayson marl. *See* Cretaceous strata.

Greensand. *See* Glauconite.

Gregg County.

Geomorphology (soil mounds): Melton, 1935.

Ground water: Broadhurst, 1945, 1950a; Sundstrom, 1948; Texas State Bd. Water Engrs.

Map, geologic: Broadhurst, 1950a.

Oil and gas. *See* East Texas field under Oil and gas.

Stratigraphy: Broadhurst, 1945.

Well records. *See* Ground water, above.

Greta (*Heterostegina*) sand. *See* Tertiary strata and rocks.

Grimes County.

Building stone: Ramsey, 1936.

Carlos structure, name restriction: Speed, 1939.

Clay: Ramsey, 1936a.

Faults: Renick, 1936.

Gravel: Ramsey, 1936.

Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.; White, W. N., 1939.

Map, geologic: Renick, 1936.

Meteorite: Barnes, V. E., 1940a; Lonsdale, 1937b.

Paleontology: McAnulty, 1941a.

Salt domes. *See* Ferguson's Crossing dome under Salt domes.

Siderite, salt dome caprock: Rolshausen, 1934.

Tektites (bediasites): Barnes, V. E., 1940, 1940a; Fenner, 1940.

Volcanic ash: Ramsey, 1936.

Well records. *See also* Ground water, above. Rinehart, 1942.

Grinding pebbles: Evans, G. L., 1944, 1946e; Parkinson, 1946; Sellards, 1946b; Stenzel, 1948e.

Grindstone Creek member. *See* Pennsylvanian strata.

Grooves. *See* Frosting, polishing, and faceting.

Ground water. *See also* specific counties; general areas; strata of geologic systems.

Aquifers: Broadhurst, 1946; Guyton, 1945; Plummer, F. B., 1944.

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Guadalupe County.

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Meteorite: Barnes, V. E., 1940a; Monnig, 1941.

Oil and gas. *See* Darst Creek and Luling fields under Oil and gas.

Peat: Chelf, 1941a.

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- Stratigraphy: Gardner, J. A., 1935.
 Well records: Texas State Bd. Water Engrs.
 Guadalupe group. *See* Permian strata.
 Guadalupe Mountains, Culberson and Hudspeth counties: Anonymous, 1984.
 Aerial photography: Butcher, 1938.
 Building and road stone: King, P. B., 1948.
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 Ground water: King, P. B., 1948.
 Maps, geologic: King, P. B., 1944a, 1948.
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 Reefs: Keyes, 1938; Link, T. A., 1950.
 Salt: King, P. B., 1948.
 Sedimentation: King, P. B., 1938c, 1948.
 Stratigraphy: King, P. B., 1936b, 1936c, 1942, 1948; Lang, W. B., 1937; Schuchert, 1935; Sellards, 1933b.
 Structure: Baker, C. L., 1935a; King, P. B., 1938a, 1948.
 Tectonics: King, P. B., 1938a, 1938c, 1942, 1948.
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 Guadalupe River. *See* Streams.
 Guano: Sellards, 1946b.
 Gueydan group. *See* Tertiary strata and rocks.
 Guidebooks. *See* Field trips.
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 Geomorphology. *See* Geomorphology.
 Geophysics. *See* Geophysics.
 Geothermal data: Nichols, 1946.
 Gravel deposits: Parkinson, 1946.
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 Salt domes. *See* Salt domes.
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Hackberry zone. *See* Tertiary strata and rocks.

Hale County.

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 Igneous rock, deep well: Patton, 1945a.
 Meteorites: Barnes, V. E., 1940a; Nininger, 1936.
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 Paleontology: Sellards, 1947.
 Well records. *See also* Ground water, above. Patton, 1945a.

Hall County.

- Ground water: Broadhurst, 1949.
 Map, geologic: Roth, 1937.
 Paleontology: McNulty, 1941a.
 Stratigraphy: Roth, 1937.

Halite. *See* Salt.Hall Summit formation. *See* Tertiary strata and rocks.

Hamilton County.

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 Insoluble residues (Ellenburger): Hendricks, L., 1940.
 Map, geologic: Abilene Geol. Soc., 1950.
 Meteorite: Barnes, V. E., 1940a.
 Well records: Hendricks, L., 1940.

Hamilton Dam: Holland, W. Y., 1936.

Hansford County.

- Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.
 Meteorites: Barnes, V. E., 1940a.
 Oil and gas. *See* Hugoton field under Oil and gas.
 Well records. *See* Ground water, above.

Hardeman County.

- Ground water: Sundstrom, 1949; Texas State Bd. Water Engrs.
 Soil survey: Templin, 1936.
 Well records. *See* Ground water, above.

Hardin County.

- Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.
 Oil and gas. *See* Arriola, Batson, Beech Creek, East Village Mills, Hampton, Olive, Saratoga, Silsbee, Sour Lake, and Village Mills fields under Oil and gas.
 Salt domes. *See* Arriola, Batson, Saratoga, and Sour Lake domes under Salt domes.
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Harpersville formation. *See* Pennsylvanian strata.

Harris County.

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 Geochemistry: Karly, 1939.
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Map, geologic: Foster, M. D., 1939.

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Soil: Thompson, J. N., 1946.

Stratigraphy: Beckelhymer, 1946; Meyer, 1939.

Subsidence, Goose Creek field: Clapp, 1935; Sheets, 1947.

Well records. *See also* Ground water, above. Rinehart, 1942.

Harrison County.

- Ground water: Broadhurst, 1943; Sundstrom, 1948; Texas State Bd. Water Engrs.
 Lignite: Evans, G. L., 1944a; Selvig, 1950.
 Map, geologic: Broadhurst, 1950a.
 Well records. *See* Ground water, above.

Harris sand. *See* Cretaceous strata.

Hartley County.

- Diatomite: Evans, G. L., 1944b, 1946d.
 Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.

Hartley County—Continued

- Meteorite: Barnes, V. E., 1940a.
- Paleontology: McAnulty, 1941a.
- Stratigraphy: Evans, G. L., 1945.
- Well records: Texas State Bd. Water Engrs.

Haskell County.

- Cross section: Martin, B. H., 1949b.
- Geothermal data: Barnes, V. E., 1946d.
- Ground water: Sundstrom, 1949.
- Oil and gas. *See* Chapman, Jud, Lawson-Chapman, Rose, South Haskell, and Weinert fields under Oil and gas.
- Reef: Ammon, 1949.
- Well records: Sundstrom, 1949.

Haymond formation. *See* Pennsylvanian strata.

Hays County.

- Caves: Anonymous, 1934; Craun, 1948; Uhlenhuth, 1948; White, P. J., 1948a.
- Faults: Sellards, 1935c.
- Ground water: Broadhurst, 1950; Sayre, 1942; Texas State Bd. Water Engrs.; Uhlenhuth, 1948.
- Maps, geologic: Shreveport Geol. Soc., 1949; Stephenson, L. W., 1941a.
- Reefs: Wells, 1933.
- Stratigraphy: Ellisor, 1934; Ikins, 1949.
- Well records: Broadhurst, 1950; Texas State Bd. Water Engrs.

Hazel sandstone. *See* Precambrian rocks.

Heaving shale: Frost, 1938, 1939; Halbouty, M. T., 1938b; Wade, 1942.

Heavy minerals: Bornhauser, 1940; Bowling, 1933; Bullard, 1942; Cogen, 1940; Goldstein, 1942; Mathis, 1944.

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Helms formation. *See* Mississippian strata.

Hematite. *See* Iron deposits and minerals.

Hemimorphite. *See also* Zinc minerals. Dennis, 1946a.

Hemphill beds. *See* Tertiary strata and rocks.

Hemphill County.

- Ground water: Broadhurst, 1949.
- Paleontology: Compton, 1934; Johnston, C. S., 1937; Stirtion, 1936, 1936a.

Henderson County.

- Clay: Pence, 1948; Schoch, 1933a; Texas Power and Light Co., 1944.
- Gravel deposits: Evans, G. L., 1939.
- Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.
- Iron ore: Eckel, 1938.
- Maps, geologic: Eckel, 1938; Stephenson, L. W., 1941a.
- Oil and gas. *See* Opelika field under Oil and gas.
- Paleobotany: Ball, 1939.
- Paleontology: Evans, G. L., 1941a; McAnulty, 1941, 1941a; Sellards, 1941; Stovall, J. W., 1950.
- Stratigraphy: Gardner, J. A., 1935.
- Terraces (stream): Evans, G. L., 1939; Stovall, J. W., 1950.
- Well records. *See* Ground water, above.

Hensell sand. *See* Cretaceous strata.

Hess formation. *See* Permian strata.

Heterostegina zone. *See* Tertiary strata and rocks.

Hickory sandstone. *See* Cambrian strata.

Hidalgo County.

- Caliche: Price, W. A., 1933a.
- Field trip: South Texas Geol. Soc., 1939.
- Geophysics: Post, 1934.

Hidalgo County—Continued

- Ground water: Broadhurst, 1950; Follett, 1949; Texas State Bd. Water Engrs.
- Maps, geologic: Price, W. A., 1933a, 1935a; Weeks, 1937; Wynd, 1944.
- Oil and gas. *See* La Blanca, Mercedes, and Sam Fordyce fields under Oil and gas.
- Soils: Price, W. A., 1933a; Wynd, 1944.
- Stratigraphy: Weeks, 1937.
- Well records: Follett, 1949; Texas State Bd. Water Engrs.

High Plains (including Llano Estacado, Panhandle, South Plains, Staked Plains). *See also* comprising counties; Amarillo uplift; Anadarko basin; Palo Duro basin; Palo Duro Canyon; Plainview basin; Trinity River tributary area. Weissenborn, 1948a.

Basement rocks. *See also* Basement rocks. Moss, 1936; Roth, 1949a.

Basins: Evans, G. L., 1945; Germond, 1940; Price, W. A., 1944a.

Caliche: Sidwell, 1943.

Clay, bleaching: Jenke, 1948.

Cross sections: Barnes, J. R., 1949; Oil and Gas Jour., 1942i; Roth, 1949a; Thompson, W. C., 1937.

Diatomite: Evans, G. L., 1944b, 1946d.

Earthquake: Sellards, 1940c.

Elevations: Staack, 1941.

Field trips: Panhandle Geol. Soc., 1949; Roth, 1940; West Texas Geol. Soc., 1949b.

Geomorphology. *See* Geomorphology.

Ground water: Alexander, 1943, 1945; Baker, C. L., 1935c; Barnes, J. R., 1949; Broadhurst, 1942, 1944, 1947; Condra, 1935; Harp, 1940; Plummer, F. B., 1936; Theis, 1936; White, W. N., 1938b, 1939a, 1940a, 1946.

Helium. *See* Helium.

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Maps.

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Oil and gas. *See* Oil and gas, general areas.

Paleogeology: Roth, 1949a.

Paleontology: Clark, W. T., 1939; Evans, G. L., 1945, 1950; Geiser, 1946; Panhandle Geol. Soc., 1949; Stainbrook, 1940; VanderHoof, 1936.

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Potash: Anonymous, 1934; Delacote, 1934.

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Sands, Quaternary: Huffington, 1941b.

Sedimentation. *See* Sedimentation, west Texas.

Soil: Hayes, F. A., 1935.

Drifting (dust storms): Choun, 1936; Leighton, 1938; Sidwell, 1938.

Iron staining in: Tanner, 1939a.

Stratigraphic nomenclature: Moore, R. C., 1936.

Stratigraphy: Adkins, 1933a; Dott, 1941; Elias, 1948; Evans, G. L., 1945, 1949; Griley, 1933; Osborne, 1941; Plummer, F. B., 1933b; Roth, 1937, 1941.

Structure: Baker, C. L., 1935c; Sellards, 1935c.

Unconformities: Panhandle Geol. Soc., 1936.

Volcanic ash (pumicite): Baker, C. L., 1935c.

Hill County.

- Ground water: Sundstrom, 1948.
- Paleontology: Lynch, 1933.
- Stratigraphy: Lozo, 1949.
- Well records: Sundstrom, 1948.

- Hill Creek beds. *See* Pennsylvanian strata.
Hill sand. *See* Cretaceous strata.
Historical geology, Texas, in general. *See also* specific counties; general areas. Barton, D. C., 1937; Macintosh, 1936; Schuchert, 1935a; Sellards, 1934.
Hockley County.
 Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.
 Oil and gas. *See* Slaughter and Ropes fields under Oil and gas.
 Paleontology: Stainbrook, 1941.
 Reefs: Fagin, 1950b.
 Well records. *See* Ground water, above.
Hockley formation. *See* Tertiary strata and rocks.
Hockley Mound sand. *See* Tertiary strata and rocks.
Hog Creek shale. *See* Pennsylvanian strata.
Holothuroidea. *See* Paleontology.
Holt "pay". *See* Permian strata.
Home Creek limestone. *See* Pennsylvanian strata.
Honeycut formation. *See* Ordovician strata.
Hood County.
 Ground water: Sundstrom, 1949.
 Map, geologic: Adkins, 1933a.
 Paleontology: Harris, Geo. D., 1934; Lynch, 1933; Moore, R. C., 1940b; Shuler, 1935a.
 Stratigraphy: Ikins, 1949; Thompson, S. A., 1935.
 Well records: Sundstrom, 1949.
Hopkins County.
 Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.
 Map, geologic: Stephenson, L. W., 1941a.
 Mounds: Rich, 1934.
 Oil and gas. *See* Pickton and Sulphur Bluff fields under Oil and gas.
 Stratigraphy: Gardner, J. A., 1935.
 Well records. *See* Ground water, above.
Hords Creek limestone. *See* Permian strata.
Hornblende: Barnes, V. E., 1946a, 1947a.
Horse Creek limestone. *See* Permian strata.
Horses. *See* Paleontology, Perissodactyla.
Hosston formation. *See* Cretaceous strata.
Houston County.
 Building stone: Harrington, 1939.
 Clay (bentonite): Evans, G. L., 1941a; Meade, 1941; Stenzel, 1940f; Webb, 1942.
 Coal: Harrington, 1939; Lavine, 1941.
 Fault zone, Antrim: Stenzel, 1946.
 Geophysics: Jenny, 1935, 1936.
 Ground water: Sundstrom, 1948.
 Iron: Harrington, 1939.
 Maps, geologic: Stenzel, 1944f.
 Oil and gas. *See also* Grapeland, Kittrell, and Navarro Crossing fields under Oil and gas.
 Harrington, 1939.
 Opalized wood: Harrington, 1939.
 Paleontology: Stenzel, 1943b; Tucker-Rowland, 1938.
 Radioactivity measurements, Navarro Crossing: Bell, K. G., 1940.
 Salt domes. *See* Kittrell dome under Salt domes.
 Sand and gravel: Harrington, 1939.
 Stratigraphy: Stenzel, 1945a.
 Well records: Rinehart, 1942; Sundstrom, 1948; Webb, 1942.
Houston Geological Society, history of: Ellisor, 1947.
Houston group. *See* Quaternary strata and deposits.
Hovey channel, Brewster and Pecos counties: King, P. B., 1942.
Howard County.
 Barite: Evans, G. L., 1946a.
Howard County—Continued
 Cross sections: Doherty, 1938; Page, 1940; West Texas Geol. Soc., 1949.
 Field trip: Scott, G., 1941.
 Ground water: Broadhurst, 1949; Livingston, 1944; Texas State Bd. Water Engrs.
 Map, geologic: Livingston, 1944.
 Nitrogen well: Bybee, 1938.
 Oil and gas. *See* Big Spring and Vealmoor fields under Oil and gas.
 Paleontology: Evans, G. L., 1941a; Gregory, J. T., 1941a, 1943, 1945; McAnulty, 1941a; Sawin, 1941a, 1945, 1947; Sellards, 1940f; Stovall, J. W., 1936; Wilson, J. A., 1948.
 Well records. *See* Ground water, above.
Hoxbar formation. *See* Pennsylvanian strata.
Hudspeth County. *See also* Babb flexure; Carrizo Mountains; Cornudas Mountains; Devil Ridge area; Diablo Plateau; Eagle Mountains; Finlay Mountains; Guadalupe Mountains; Hueco Bolson; Hueco Mountains; Malone Mountains; Marfa basin; Quitman Mountains; Salt basin; Sierra Blanca area; Sierra Diablo; Van Horn uplift; Victorio flexure.
 Barite: Evans, G. L., 1946a.
 Caves: Jackson, 1948.
 Coal: Baker, C. L., 1935c.
 Copper: Evans, G. L., 1943; Sample, 1945.
 Cross section: West Texas Geol. Soc., 1949.
 Feldspar: Holt, 1947.
 Field trips: Smith, J. F., 1949; West Texas Geol. Soc., 1939.
 Fluorspar: Dennis, 1946; Evans, G. L., 1943a, 1946c; Gillerman, 1946, 1948.
 Ground water: Baker, C. L., 1935c; Broadhurst, 1949; Scalapino, 1950; Scofield, 1938.
 Gypsum: Moyer, 1939.
 Historical geology: Albritton, 1938.
 Manganese: Baker, C. L., 1935b.
 Maps, geologic: Albritton, 1938; Darton, 1933; Evans, G. L., 1943a, 1946c; Huffington, 1943; King, P. B., 1935, 1940, 1944, 1944a, 1945, 1948, 1949; Scalapino, 1950; Smith, J. F., 1940a, 1941a, 1949; West Texas Geol. Soc., 1946.
 Mica: Holt, 1947.
 Paleoclimate: Albritton, 1950.
 Paleontology: Cooper, G. A., 1946a; Girty, 1937; Lozo, 1943a; Miller, A. K., 1945a, 1945b; Okulitch, 1937; Stanton, 1947; Stoyanow, 1936.
 Silver: Sample, 1945.
 Soil survey: Carter, W. T., 1934.
 Stratigraphy: Schuchert, 1935a; Stanton, 1947; Stoyanow, 1936.
 Structure: Baker, C. L., 1935a; Smith, J. F., 1941a; Trace, 1942.
 Well records: Cannon, 1940; King, P. B., 1949; Scalapino, 1950; West Texas Geol. Soc., 1950a.
 Zinc: Baker, C. L., 1935b; Dennis, 1946a.
Hueco Bolson, El Paso and Hudspeth counties.
 Ground water: Baker, C. L., 1935c.
 Structure: Baker, C. L., 1935a.
Hueco limestone. *See* Permian strata.
Hueco Mountains, El Paso and Hudspeth counties.
 Caves: Cosgrove, 1943; Jackson, 1948.
 Field trips: West Texas Geol. Soc., 1946, 1949d.
 Map, geologic: King, P. B., 1945.
 Paleontology: Bridge, 1940; Cloud, P. E., 1948; Dunbar, 1937; Girty, 1939; Thompson, M. L., 1942.
 Polished rocks: Bryan, K., 1942a; Lang, W. B., 1941a.
 Stratigraphy: Cloud, 1948b; Keyes, 1938d; King,

Hueco Mountains—Continued

- P. B., 1934, 1934b, 1945; Sellards, 1933b.
Structure: Baker, C. L., 1935a.
Unconformities: Arick, 1936.

Huelster formation. *See* Tertiary strata and rocks.
Hunt County.

- Faults: Hawley, 1943.
Field trip: East Texas Geol. Soc., 1945a.
Geophysics: Hawley, 1943.
Ground water: Sundstrom, 1948.
Map, geologic: Stephenson, L. W., 1941a.
Mounds: Rich, 1934.
Soil survey: Templin, 1939.
Stratigraphy: Ellis, 1934.
Well records: Sundstrom, 1948.

Hurricane lentil. *See* Tertiary strata and rocks.

Hutchinson County.

- Earthquake: Sellards, 1940c.
Ground water: Broadhurst, 1949.
Oil and gas: *See* Panhandle fields under Oil and gas.
Well records: Broadhurst, 1949.

Hyacintidae. *See* Paleontology, Carnivora.

Hydrogen sulfide gas: Dobbin, 1935.

"Ichthyic oil": Riddick, 1936.

Igneous rocks. *See also* specific rocks of geologic systems.

- Alpine region, west Texas: Bacon, 1941.
Analcime suite, Brewster County: Lonsdale, 1949.
Analcite, Terlingua district: Lonsdale, 1940, 1940a.
Austin area, Travis County: Damon, 1940a.
Barrilla Mountains: Eifer, 1950; Jones, C. T., 1938.
Basalt: Adkins, 1933a; Albritton, 1938; Barnes, V. E., 1944; San Antonio Geol. Soc., 1937; Sellards, 1946b.
Big Bend area: Lonsdale, 1949a; Maxwell, R. A., 1949.
Buck Hill area, Brewster County: Elms, 1938; Goldich, 1949, 1949a.
Building and construction materials: Baker, C. L., 1935c; Barnes, V. E., 1936b, 1939a, 1944, 1947a.
Caldwell County: Rasmussen, 1947.
Cenozoic, west Texas: Plummer, F. B., 1933b.
Cretaceous, of Texas: Adkins, 1933a.
Cretaceous, Ouachita belt: Miser, 1934a.
Davis Mountains: Ives, R. L., 1941; Jones, C. T., 1938.
Devil Ridge area, Hudspeth County: Smith, J. F., 1940a.
Eagle Mountains, Hudspeth County: Gillerman, 1946, 1948; Smith, J. F., 1941a.
El Paso region: Sellards, 1933b.
Granite: Baker, C. L., 1935c; Barnes, V. E., 1936b, 1939a, 1944, 1947a; Chelf, 1941b; Goldich, 1941; Keppel, 1940; McAdams, 1936; Romberg, 1944; Sandell, 1943; Sellards, 1946b.
Gulf Coastal Plain: Adkins, 1933a; Moody, 1949.
Index, Texas mineral resources: Sellards, 1946b.
Lava flows, Van Horn Mountains: Havard, 1950.
Llano area: Barnes, V. E., 1936b, 1939a, 1940b, 1944, 1946b, 1947a; Goldich, 1941; Keppel, 1940; Landes, 1933, 1935; Romberg, 1944; Sandell, 1943; Sellards, 1933b; Stenzel, 1935b, 1936.
Llanite (opaline granite): Barnes, V. E., 1947a.
Magnetic properties, Gray and Oldham counties: Taylor, G. L., 1948.

Igneous rocks—Continued

- Malone Mountains: Albritton, 1938.
Marathon region: King, P. B., 1938b.
Medley district, Jeff Davis County: Vogel, 1942.
Mitre Peak area, Davis Mountains: Ives, R. L., 1941.
Oil and gas: Blackburn, 1935; Sellards, 1938d; Smiser, 1935.
Pegmatites. *See also* Badu Hill pegmatite; Baringer Hill pegmatite; Kiam pegmatite; Williams pegmatite. Landes, 1933, 1935.
Petrography. *See* Petrography.
Pilot Knob, Travis County: Cuyler, 1940a; Durham, 1949; Moody, 1949.
Quitman Mountains, Hudspeth County: Huffington, 1941, 1948.
Rare metallic constituents: Sandell, 1948.
Santiago Peak area, Brewster County: Eifer, 1943.
Shafter district, Presidio County: Ross, 1943a.
Sierra Blanca area, Hudspeth County: Smith, J. F., 1949.
Smoothingiron granite mass, Llano County: Romberg, 1944.
Solitario area: Lonsdale, 1940a.
Terlingua district: Lonsdale, 1940, 1940a; Ross, 1937.
Trans-Pecos area, in general: Baker, C. L., 1935a; King, P. B., 1935; Maley, 1938.
Trap rock: Baker, C. L., 1935c.
Valverdes, weathered obsidian: La Paz, 1948.
Van Horn Mountains: Havard, 1950.
Volcanic glass, Pennsylvanian limestone: Patton, 1936.
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Volcanism, Trans-Pecos: Maley, 1938.
Wells, west Texas: Patton, 1945a, 1947.
Wolf Mountain granite phacolith, Llano County: McAdams, 1936; Stenzel, 1936.
Indio formation. *See* Tertiary strata and rocks.
Industrial sand. *See* Sand.
Infusorial earth. *See* Diatomite.
Insoluble residues.
Ellenburger: Cole, 1941, 1942; Goldich, 1947; Hendricks, L., 1940.
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Holt "pay", Ector County: Cole, 1940a.
Limestone of Damon Mound: Hurlbut, 1946.
Irion County.
Cross section: Mohr, 1939.
Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.
Potash: Cunningham, 1935, 1936.
Well records: Texas State Bd. Water Engrs.
Iron deposits and minerals. *See also* Siderite. Sellards, 1940b, 1946b.
Central Texas (Llano area): Baker, C. L., 1935b; Barnes, V. E., 1940g, 1943, 1949; Evans, A. M., 1947a; Stenzel, 1944e; U. S. Bur. Mines, 1944.
East Texas: Anderson, G. H., 1942; Baker, C. L., 1935b; Eckel, 1935, 1935a, 1938; Evans, A. M., 1947b; Galbraith, 1937; Harrington, 1939; Stenzel, 1939a, 1944e, 1948i; Wilson, H., 1933.
Goethite: Eckel, 1938; Galbraith, 1937.
Hematite: Baker, C. L., 1935b; Barnes, V. E., 1949; Eckel, 1938; Evans, A. M., 1947a; Galbraith, 1937; Ross, 1935b; U. S. Bur. Mines, 1944.
Limonite: Eckel, 1935, 1935a, 1938.
Magnetite: Baker, C. L., 1935b; Barnes, V. E.,

Iron deposits and minerals—Continued

1940g, 1943, 1949; Evans, A. M., 1947a; U. S. Bur. Mines, 1944.

Martite: Barnes, V. E., 1949; Evans, A. M., 1947a; U. S. Bur. Mines, 1944.

Iron Mountain magnetite, Llano County: Barnes, V. E., 1943; Hurley, 1943; U. S. Bur. Mines, 1944.

Iron ore gravel: Crow, 1939; Sellards, 1946b; Whitcomb, 1939a.

Ivan limestone. *See* Pennsylvanian strata.

Ives conglomerate. *See* Mississippian strata.

Jack County.

Ground water: Sundstrom, 1949.

Map, geologic: Armstrong, 1937a.

Oil and gas. *See* Bryson field under Oil and gas.

Paleontology: Bridge, 1940; Cooper, G. A., 1941;

Flower, 1939; McAnulty, 1941a; Moore, R. C., 1940a, 1940b; Newell, 1938a.

Well records: Sundstrom, 1949.

Jacksboro limestone. *See* Pennsylvanian strata.

Jackson County.

Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.

Oil and Gas. *See also* Edna, Harmon, Maubro, Mauritz, Stewart, and West Ranch fields under Oil and gas. Eby, 1948; Hornberger, 1948.

Well records. *See also* Ground water, above. Oil and Gas Jour., 1942d, 1942f.

Jackson formation. *See* Tertiary strata and rocks.

Jagger Bend limestone. *See* Permian strata.

Jasper: Witte, 1943.

Jasper County.

Clay (bentonite): Shafer, 1942a.

Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.

Meteorite: Barnes, V. E., 1940a.

Oil and gas. *See* Rockland field under Oil and gas.

Well records. *See also* Ground water, above. Rinehart, 1942.

Jeff conglomerate. *See* Tertiary strata and rocks.

Jeff Davis County. *See also* Barrilla Mountains;

Chispa Mountains; Davis Mountains; Mitre Peak area; Tierra Vieja Mountains; Van Horn Mountains; Van Horn uplift.

Barite: Evans, G. L., 1946a.

Caves: Jackson, 1948.

Clay (kaolin): Baker, C. L., 1935c; McMillan, 1949c; Schoch, 1938a; Vogel, 1942.

Earthquakes: Byerly, 1934.

Ground water: Broadhurst, 1949.

Historical geology: Albritton, 1939.

Manganese: Baker, C. L., 1935b; Warren, 1946.

Maps, geologic: Darton, 1933; Eifler, 1950; Jones, C. T., 1938; King, P. B., 1949; McMillan, 1949c; Vogel, 1942; White, W. N., 1938.

Meteorite: Barnes, V. E., 1940a; Nininger, 1936.

Paleontology: Adkins, 1933.

Rutile (titanium): Vogel, 1942.

Soil survey: Carter, W. T., 1934.

Well records: King, P. B., 1949; Skinner, 1948.

Jefferson County.

Geophysics: Eby, 1935; Jenny, 1936; Kendall, J. M., 1941; Wendler, 1946.

Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.

Oil and gas. *See also* Amelia, Big Hill, Clam Lake, Fannett, Gilbert Ranch, La Belle, Lovell Lake, Nome, North Cheek, Sabine Pass, South China, Spindletop, Stowell-Winnie, and West

Jefferson County—Continued

Beaumont fields under Oil and gas. Rister, 1949.

Paleontology: Garrett, 1939; Stephenson, M. B., 1945a.

Salt domes. *See* Big Hill, Clam Lake, Fannett, MacFaddin Beach, and Spindletop domes under Salt domes.

Stratigraphy: Hough, 1948; Reedy, 1949.

Well records. *See* Ground water, above.

Jim Hogg County.

Geophysics: Hollingsworth, 1947; Karcher, 1935.

Ground water: Broadhurst, 1950; Texas State Bd. Water Engrs.

Maps, geologic: Livingston, 1936a; Wynd, 1944a.

Oil and gas. *See also* East field under Oil and gas. Cooper, H. H., 1937; Freeman, 1949.

Well records. *See* Ground water, above.

Jim Ned shale. *See* Permian strata.

Jim Wells County.

Cross section: Deussen, 1939.

Geophysics: Deegan, 1946a; Woolley, 1946.

Ground water: Broadhurst, 1950; Texas State Bd. Water Engrs.

Map, geologic: Livingston, 1936a.

Oil and gas. *See* Ben Bolt, La Gloria, Magnolia City, Orange Grove, Seeligson, South Halde- man, Tijerina-Canales-Blucher, and Wade City fields under Oil and gas.

Well records: Broadhurst, 1950; Texas State Bd. Water Engrs.

Johnson County.

Alunite: Stephenson, L. W., 1946a.

Biostratigraphic relations: Lozo, 1944.

Ground water: Sundstrom, 1949.

Meteorite: Barnes, V. E., 1940a.

Paleontology: Loeblich, A. R., 1941; Lozo, 1944.

Stratigraphy: Lozo, 1949.

Well records: Sundstrom, 1949.

Johns Valley shale. *See* Pennsylvanian strata.

Jones County.

Anthropology: Ray, 1948.

Copper: Weissenborn, 1948d.

Cross section: Doherty, 1938.

Geochemistry: Ransone, 1947.

Ground water: Sundstrom, 1949.

Map, geologic: Meyers, 1937.

Oil and gas. *See also* Alexander-Myatt, Avoca, Bartlett, Griffin, Hardy, Humphrey-Gray, Irwin, Noodle Creek, Pitzer, Reddin, and Wimberly fields under Oil and gas. Daniel, 1940.

Paleontology: McAnulty, 1941a; Ray, 1942.

Sedimentation: Ray, 1948.

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Juarez Mountains, Chihuahua, Mexico (Sierra del Paso del Norte): Strain, 1950.

Judkins sands. *See* Quaternary strata and deposits. Jurassic.

Correlations: Hazzard, 1939b, 1947a; Inlay, 1948, 1945a; Roy, 1941; Shimer, 1934.

Field trip: West Texas Geol. Soc., 1950.

Formation tops: Inlay, 1944.

Paleoclimate. *See* Paleoclimate.

Paleogeography. *See* Paleogeography.

Paleogeology. *See* Paleogeology.

Paleontology. *See* Paleontology and *also* Strata, below.

Paleotectonic map: Eardley, 1949.

Strata.

Bossier formation, stratigraphy: Swain, 1944, 1949.

Jurassic—Continued

Strata—Continued

Buckner formation.

Correlation, age: Imlay, 1945a.

Nomenclature: Hazzard, 1939b.

Paleontology: Imlay, 1945a.

Stratigraphy: Imlay, 1942, 1943; Swain, 1949.

Cotton Valley formation.

Age: Imlay, 1945a.

Paleontology: Imlay, 1943, 1945a; Swain, 1944.

Stratigraphy: Imlay, 1942, 1943; Swain, 1944.

Dorcheat member: Swain, 1949.

Eagle Mills formation.

Correlation: Imlay, 1945a.

Source bed, salt domes: Critz, J. S., 1947.

Stratigraphy: Imlay, 1942, 1943; Swain, 1949.

General discussion and stratigraphy: Getzen-
danner, F. M., 1943; Imlay, 1943, 1946;
King, P. B., 1935; King, R. E., 1946;
Morgan, H. J., 1947; Murray, G. E., 1950a;
Sandidge, 1946; Schuchert, 1935a; Swain,
1944; Ver Wiebe, 1933.

Malone formation.

Age: Keyes, 1936c.

Paleontology: Adkins, 1933a; Albrit-
ton, 1937, 1937a, 1937c, 1937d, 1938;
Imlay, 1940; Stoyanow, 1936.

Stratigraphy: Adkins, 1933a; Albritton,
1938; Huffington, 1943; Stoyanow,
1936.

Non-marine, adjacent to Texas: Adkins, 1933a.

Norphlet formation: Hazzard, 1947a.

Schuler formation.

Paleontology: Swain, 1945.

Stratigraphy: Swain, 1944, 1949.

Shongaloo member, stratigraphy: Swain, 1949.

Smackover formation.

Age: Imlay, 1945a.

Oil and gas: Ingram, R., 1942.

Paleontology: Imlay, 1943, 1945a.

Stratigraphy: Imlay, 1942, 1943; Swain, 1949.

Kanawha volcanic zone. *See* Cretaceous strata.Kaolin. *See* Clay.

Karnes County.

Clay: Hager, 1939; Pence, 1949.

Field trip: Corpus Christi Geol. Soc., 1948.

Ground water: Broadhurst, 1950; Texas State Bd. Water Engrs.

Stratigraphy: Johnson, E. L., 1933.

Well records. *See also* Ground water, above. Rinehart, 1942.Karst landscape. *See* Geomorphology, sinkholes.

Kaufman County.

Geology, general: Richards, A., 1948.

Ground water: Sundstrom, 1948.

Maps, geologic: Richards, A., 1948; Stephenson, L. W., 1941a.

Paleontology: Cushman, 1940b; Stenzel, 1943b.

Stratigraphy: Ellisor, 1934; Gardner, J. A., 1935.

Soil survey: Templin, 1940.

Keechi Creek formation. *See* Pennsylvanian strata.

Kelsey anticline, Upshur County: Denison, 1933.

Kemp clay. *See* Cretaceous strata.

Kendall County.

Caves: Anonymous, 1934; Craun, 1948; Nicholson, F. E., 1948; White, P. J., 1948a.

Ground water: Broadhurst, 1950; Sayre, 1942;

Texas State Bd. Water Engrs.

Meteorites: Barnes, V. E., 1940a.

Well records: Texas State Bd. Water Engrs.

Kenedy County.

Geophysics: Howell, L. G., 1940.

Ground water: Texas State Bd. Water Engrs.

Maps, geologic: Livingston, 1936a.

Well records: Texas State Bd. Water Engrs.

Kent County.

Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.

Oil and gas. *See also* Cogdell and Salt Creek fields
under Oil and gas. Deegan, 1949f, 1950b; In-
galls, 1950c; Oil and Gas Jour., 1950a.

Volcanic ash: Landes, 1938.

Well records: Texas State Bd. Water Engrs.

Kerens member. *See* Tertiary strata and rocks.

Kerr basin: Cheney, 1940; Cole, 1938; Sellards, 1935c.

Kerr County.

Caves: White, P. J., 1948a.

Ground water: Sayre, 1942; Sundstrom, 1949.

Paleontology: Ikins, 1940a, McAnulty, 1941a.

Well records: Sundstrom, 1949.

Kiam bismuth-molybdenum prospect, Llano County. *See* Kiam pegmatite.Kiamichi formation. *See* Cretaceous strata.

Kiam pegmatite, Llano County: Barnes, V. E., 1946b; Stenzel, 1940e.

Kickapoo Creek group. *See* Pennsylvanian strata.Kickapoo Falls limestone. *See* Pennsylvanian strata.Kimble County. *See also* Edwards arch.

Cave: White, P. J., 1948a.

Field trip: Abilene Geol. Soc., 1950.

Ground water: Sundstrom, 1949.

Maps, geologic: Abilene Geol. Soc., 1950; Plummer, H. J., 1945.

Meteorites: Barnes, V. E., 1940a, 1940c, 1940e.

Paleontology: Moore, R. C., 1940b.

Rock wool (siliceous limestone): Plummer, F. B., 1944a.

Stratigraphy: Plummer, F. B., 1950.

Kincaid formation. *See* Tertiary strata and rocks.

King County.

Maps, geologic: Hubbard, 1937; Roth, 1937.

Oil and gas. *See* Bateman Ranch and Ross Ranch
fields under Oil and gas.

Stratigraphy: Roth, 1937, 1945.

Kinney County.

Asphalt: San Antonio Geol. Soc., 1937.

Barite: Evans, G. L., 1946a.

Basalt: San Antonio Geol. Soc., 1937.

Cave: White, P. J., 1948a.

Faults: Sellards, 1935c.

Ground water: Broadhurst, 1950; Sayre, 1942; Texas State Bd. Water Engrs.

Map, geologic: Darton, 1933.

Stratigraphy: Sandidge, 1943.

Well records: Texas State Bd. Water Engrs.

Kirschberg evaporite. *See* Cretaceous strata.Kiser gypsum and anhydrite beds. *See* Permian strata.

Kleberg County.

Geophysics: Deegan, 1946a.

Ground water: Broadhurst, 1950; Livingston, 1936a.

Map, geologic: Livingston, 1936a.

Kleberg County—Continued

Oil and gas. *See* Borregas, Monte Negra, Seeligson, Stratton, and Tijerina-Canales-Blucher fields under Oil and gas.

Well records: Broadhurst, 1950; Livingston, 1936a.

Knox County.

Dolomite dike: Kramer, 1924.

Ground water: Sundstrom, 1949; Texas State Bd. Water Engrs.

Paleontology: Olson, 1948.

Stratigraphy: Roth, 1945.

Well records: Texas State Bd. Water Engrs.

Kokernot formation. *See* Quaternary strata and deposits.

Kyanite: Baker, C. L., 1935b; Cogen, 1940.

Labahia member. *See* Tertiary strata and rocks.

Lagarto Creek beds. *See* Tertiary strata and rocks.

Lagarto formation. *See* Tertiary strata and rocks.

La Huerta silt. *See* Permian strata.

Lake Pinto sandstone. *See* Pennsylvanian strata.

Lakes. *See* Alkali lakes; Geomorphology; Sedimentation.

Lamar County.

Field trip: East Texas Geol. Soc., 1945a.

Ground water: Sundstrom, 1948.

Map, geologic: Stephenson, L. W., 1937a.

Paleontology: Cushman, 1936c; Evans, G. L., 1941a; McNulty, 1941a; Wells, 1947.

Sedimentation: Glymph, 1937; Oakes, 1940.

Soils: Oakes, 1940.

Stratigraphy: Hazzard, 1939a; Stephenson, L. W., 1937a.

Lamar limestone. *See* Permian strata.

Lamb County.

Diatomite: Evans, G. L., 1946d.

Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.

Stratigraphy: Sidwell, 1936.

Well records: Broadhurst, 1949; Texas State Bd. Water Engrs.

Lampasas arch, Lampasas County: Sellards, 1935c.

Lampasas County. *See also* Lampasas arch.

Building stone: Barnes, V. E., 1947a.

Ground water: Sundstrom, 1949.

Maps, geologic: Abilene Geol. Soc., 1950; Barnes, V. E., 1940h; Cloud, 1948b; Damon, 1946; Plummer, F. B., 1945.

Rock wool (siliceous limestone): Plummer, F. B., 1944a.

Spiculite: Damon, 1946.

Stratigraphy: Ikins, 1949; Plummer, F. B., 1950.

Tripoli: Baker, C. L., 1935c.

Lampasas series. *See* Pennsylvanian strata.

Landrum shale. *See* Tertiary strata and rocks.

Langbeinite. *See* Potash.

Lanoria quartzite. *See* Cambrian strata; Precambrian rocks.

Lapara sand. *See* Tertiary strata and rocks.

La Perla shale. *See* Tertiary strata and rocks.

Laramide deformation: Baker, C. L., 1935a; Sellards, 1934.

Laredo formation. *See* Tertiary strata and rocks.

La Salle County.

Ground water: Broadhurst, 1950.

Oil and gas. *See* Washburn field under Oil and gas.

Well records: Broadhurst, 1950; Rinehart, 1942.

Las Vigas formation. *See* Cretaceous strata.

La Tuna member. *See* Pennsylvanian strata.

Lavaca County.

Faults: Bell, D. E., 1938; Sheets, 1947.

Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.

Maps, geologic: Darton, 1933; Renick, 1936.

Oil and gas: Lasky, 1950.

Well records. *See also* Ground water, above. Rinehart, 1942.

Lazy Bend member. *See* Pennsylvanian strata.

Lead minerals (including galena): Baker, C. L., 1933a, 1935b; Cullison, 1944, 1944a; Dennis, 1947a; Hanna, 1933; Howell, B. F., 1938; McMillan, 1949a; Redfield, 1946a; Ross, 1935b, 1943a; Sellards, 1940b, 1946b; Tarr, W. A., 1933.

Leaves. *See* Paleobotany.

Lechatelierite: Barnes, V. E., 1940.

Lee County.

Building stone: Harris, Geo. D., 1941.

Clay: Harris, Geo. D., 1941.

Cross section: South Texas Geol. Soc., 1949a.

Faults: Sheets, 1947.

Geology, general: Harris, Geo. D., 1941.

Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.

Lignite: Harris, Geo. D., 1941.

Map, geologic: Renick, 1936.

Oil and gas. *See* Tanglewood field under Oil and gas.

Paleobotany: Berry, E. W., 1941.

Paleontology: Stenzel, 1943b.

Peat: Harris, Geo. D., 1941; Plummer, F. B., 1941, 1945b; Potzger, 1943, 1947.

Stratigraphy: Harris, Geo. D., 1941.

Well records. *See also* Ground water, above. Rinehart, 1942.

Lemons Bluff member. *See* Pennsylvanian strata.

Leona formation. *See* Quaternary strata and deposits.

Leonard formation. *See* Permian strata.

Leona River. *See* Streams.

Leon County.

Clay: Crow, 1939; Stenzel, 1939a.

Domes: Stenzel, 1939a.

Faults: Stenzel, 1939a.

Geomorphology: Stenzel, 1939a.

Glauconite: Stenzel, 1939a.

Ground water: Stenzel, 1939a; Sundstrom, 1948; Texas State Bd. Water Engrs.

Iron ore: Stenzel, 1939a.

Iron ore gravel: Crow, 1939.

Lignite: Crow, 1939; Stenzel, 1939a.

Maps, geologic: Stenzel, 1939a; 1944f.

Oil and gas. *See also* Buffalo, Long Lake, and Navarro Crossing fields under Oil and gas. Tarr, R. S., 1934.

Paleontology: Kellogg, 1936; Stenzel, 1934, 1939a, 1943, 1943a, 1943b, 1945a.

Peat: Plummer, F. B., 1945b.

Road materials: Stenzel, 1939a.

Salt domes. *See* Marquez and Oakwood domes under Salt domes.

Sand: Crow, 1939; Stenzel, 1938, 1939a.

Sand and gravel: Crow, 1939; Stenzel, 1939a.

Sandstone: Crow, 1939.

Soils: Stenzel, 1939a.

Stratigraphy: Stenzel, 1939a.

Well records. *See also* Ground water, above. Rinehart, 1942.

Lewisville beds. *See* Cretaceous strata.

Liberty County.

Cross section: Ellisor, 1944.

Geophysics: Barton, D. C., 1944a; Eby, 1935;

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- Hoylman, 1946; Nettleton, 1943; Thompson, W. C., 1949.
- Ground water: Alexander, W. H., 1945a, 1950; Sundstrom, 1948.
- Oil and gas. *See* Cleveland, Cottonwood, Esperson, Hankamer, Hardin, Hull, Kirby, McCoy, Martha, Moss Bluff, North Dayton, South Esperson, and South Liberty fields under Oil and gas.
- Paleontology: Cushman, 1936c.
- Salt domes. *See* Esperson, Hankamer, Hull, Moss Bluff, North Dayton, and South Liberty domes under Salt domes.
- Sands, molding: Univ. Texas, Bur. Econ. Geology, 1944.
- Sulfur: Kinney, 1948f.
- Well records. *See also* Ground water, above. Rinehart, 1942.
- Lightweight aggregates. *See* Construction materials.
- Lignite. *See also* Anderson, Bastrop, Fayette, Free-stone, Harrison, Lee, Leon, Milam, and Wilson counties. Averitt, 1950; Baker, C. L., 1935c; Evans, G. L., 1944a; Lavine, 1941; Plummer, F. B., 1933b; Sellards, 1946b; Selvig, 1950; Stenzel, 1946a, 1948c; U. S. Bur. Mines, 1948a; Young, W. H., 1947.
- Lime. *See* Cement and lime.
- Limestone.
- Building and construction materials: Baker, C. L., 1935c; Barnes, V. E., 1944, 1947a; Sedlmayer, 1939; Stenzel, 1948k.
- Core analysis: Bulnes, 1946.
- Damon Mound, Brazoria County: Hurlbut, 1946.
- Ground water reservoirs: George, W. O., 1947.
- Hamilton Dam: Holland, W. Y., 1936.
- Index, Texas mineral resources: Sellards, 1946b.
- Magnesium determinations, west Texas: Cunningham, 1935a.
- Marshall Ford (Mansfield) Dam: Holland, W. Y., 1937.
- Oil reservoirs: Bulnes, 1945; Bybee, 1938a; Con-ley, J. N., 1949; Conselman, 1948; Howard, W. V., 1933; Imbt, W. C., 1947.
- Palestine salt dome, Anderson County: McCammon, 1942.
- Porosity: Bulnes, 1945; Howard, W. V., 1933; Imbt, W. C., 1947.
- Pulverulent: Evans, G. L., 1944, 1946c; Stenzel, 1948e.
- Siliceous: Plummer, F. B., 1944a.
- Solution, Sierra Blanca area: Smith, J. F., 1941.
- Trinity River tributary area: Stenzel, 1948i, 1948j, 1948k.
- Limestone County.
- Clay: Broman, 1936a; Pence, 1948.
- Ground water: Sundstrom, 1948.
- Map, geologic: Stephenson, L. W., 1941a.
- Oil and gas. *See* Mexia and Wortham fields under Oil and gas.
- Paleontology: Cushman, 1940b, 1940d, 1941; Imlay, 1945a; Plummer, H. J., 1934; Stenzel, 1944b.
- Road materials: Broman, 1936.
- Sand and gravel: Broman, 1936.
- Stratigraphy: Ellisor, 1934; Gardner, J. A., 1935; Getzendaner, F. M., 1943.
- Well records: Sundstrom, 1948.
- Limonite. *See* Iron deposits and minerals.
- Lion Mountain sandstone. *See* Cambrian strata.
- Lipan member. *See* Tertiary strata and rocks.

Lipscomb County.

- Ground water: Broadhurst, 1949.
- Paleontology: Barbour, E. H., 1941; Hesse, 1940a; Johnston, C. S., 1939; Stirtton, 1936.
- Lissie formation. *See* Quaternary strata and deposits.
- Lithothamnium balls: Trask, 1947.
- Littig glauconite. *See* Tertiary strata and rocks.
- Little Walnut Creek. *See* Streams.
- Little Wichita River. *See* Streams.
- Live Oak bar. *See* Quaternary strata and deposits.
- Live Oak County.
- Barite: Evans, G. L., 1946a.
- Cross section: Deussen, 1939.
- Field trip: South Texas Geol. Soc., 1937.
- Ground water: Broadhurst, 1950; Texas State Bd. Water Engrs.
- Oil and gas. *See* Lucas field under Oil and gas.
- Paleontology: Evans, G. L., 1941a; McAnulty, 1941a; Sellards, 1940f.
- Sedimentation: Brown, C. B., 1948.
- Well records: Rinehart, 1942; Texas State Bd. Water Engrs.
- Llanite (opaline granite): Barnes, V. E., 1947a.
- Llano County. *See also* Badu Hill pegmatite; Bar-inger Hill pegmatite; Iron Mountain magnetite; Kiam pegmatite; Llano uplift; Riley Mountains; Sharp Mountain area; Smoothingiron granite mass; Williams pegmatite; Wolf Mountain granite pha-colith.
- Allanite: Marble, 1940.
- Arsenopyrite: Baker, C. L., 1935b; Tyler, 1934.
- Asbestos: Baker, C. L., 1935c.
- Barite: Evans, G. L., 1941a, 1946a; Zapp, 1941.
- Bismuth: Barnes, V. E., 1946b; Stenzel, 1940e.
- Building material: Barnes, V. E., 1939a, 1947a; Chelf, 1941c.
- Caves: White, P. J., 1948a.
- Feldspar: Barnes, V. E., 1946b; Chelf, 1942a; Huseman, 1947.
- Garnet: Barnes, V. E., 1942.
- Geophysics: Barnes, V. E., 1943; Romberg, 1944.
- Granite massifs: Keppel, 1940.
- Graphite: Baker, C. L., 1935c; Barnes, V. E., 1940i; Chelf, 1943.
- Iron minerals: Baker, C. L., 1935b; Barnes, V. E., 1943, 1949; Evans, A. M., 1947a; U. S. Bur. Mines, 1944.
- Magnesite: Chelf, 1941.
- Magnesium marbles: Schoch, 1938.
- Manganese: Warren, 1946.
- Maps, geologic: Abilene Geol. Soc., 1950; Barnes, V. E., 1940f, 1940h, 1946a, 1946b, 1947a, 1949, 1950; Cloud, 1948b; Goldich, 1947; Huseman, 1947; Romberg, 1944; Stenzel, 1936.
- Molybdenum: Barnes, V. E., 1946b; Stenzel, 1940e.
- Paleontology: Bridge, 1940; Knight, 1947.
- Poultry grit (granite): Chelf, 1941b.
- Rare-earth minerals: Anonymous, 1934; Baker, C. L., 1935b; Dake, H. C., 1949; Keith, 1940; Landes, 1933; Marble, 1940; Sellards, 1946b.
- Scheelite: Barnes, V. E., 1942.
- Serpentine: Barnes, V. E., 1946a, 1947a, 1950.
- Soapstone: Barnes, V. E., 1946a, 1947a.
- Stratigraphy: Goldich, 1947; Plummer, F. B., 1950.
- Talc: Evans, G. L., 1941a.
- Vermiculite: McMillan, 1949.
- Well records: U. S. Bur. Mines, 1944.
- Llano Estacado. *See* High Plains.
- Llano fault system. *See* Faults and fractures.
- Llanoria geosyncline. *See* Geosynclines.

- Llanoria landmass: King, P. B., 1935; Schuchert, 1935a; Sellards, 1935c.
- Llano uplift or area. *See also* comprising counties; Central Mineral region; Central Texas. Adkins, 1938a; Cheney, 1940, 1947a.
- Abrasive materials: Baker, C. L., 1935c.
- Barite: Baker, C. L., 1935b.
- Building stone: Baker, C. L., 1935c.
- Conglomerates, Cretaceous: Damon, 1940.
- Copper: Baker, C. L., 1935b.
- Feldspar: Baker, C. L., 1935b.
- Field trips: Ardmore Geol. Soc., 1937; Barnes, V. E., 1940h, 1948a; Bullard, 1939a; Plummer, F. B., 1939, 1940c.
- Galena: Baker, C. L., 1935b.
- Geomorphology: Plummer, F. B., 1950.
- Gold: Baker, C. L., 1935b.
- Igneous rocks. *See* Igneous rocks.
- Iron minerals. *See* Iron deposits and minerals.
- Manganese deposits: Warren, 1946.
- Maps, geologic: Abilene Geol. Soc., 1950; Barnes, V. E., 1940h, 1948a; Keppel, 1940; Plummer, F. B., 1950; Plummer, H. J., 1945.
- Mica: Redfield, 1946.
- Paleontology: Moore, R. C., 1945; Plummer, F. B., 1945, 1947a, 1950; Plummer, H. J., 1945; Thompson, M. L., 1947; Wilson, J. L., 1949, 1950a.
- Precambrian, underground position: Sellards, 1933b.
- Reefs: Bridge, 1947; Plummer, F. B., 1938b.
- Silver and silver ores: Baker, C. L., 1935b.
- Springs and spring deposits: Plummer, F. B., 1939b, 1944d.
- Stratigraphic correlation: Harlton, 1934; Plummer, F. B., 1938a.
- Stratigraphy: Barnes, V. E., 1941; Bridge, 1942, 1947; Dott, 1941; Plummer, F. B., 1938a, 1938b, 1939, 1940c, 1941a, 1942, 1945, 1947, 1947a, 1950; Sellards, 1933b; Thompson, M. L., 1947.
- Structural conditions, Precambrian: Stenzel, 1935b.
- Unconformities, Precambrian: Stenzel, 1936a.
- Well records: Barnes, V. E., 1949.
- Logansport formation. *See* Tertiary strata and rocks.
- Loggy Bayou member. *See* Tertiary strata and rocks.
- Lohn shale. *See* Pennsylvanian strata.
- Loma Blanca tongue. *See* Tertiary strata and rocks.
- Loma Novia sand. *See* Tertiary strata and rocks.
- Lone Camp limestone. *See* Pennsylvanian strata.
- Longhorn Cavern. *See* Caves and caverns.
- Lopez sand. *See* Tertiary strata and rocks.
- Los Arrieros shale. *See* Tertiary strata and rocks.
- Los Guerras sandstone. *See* Tertiary strata and rocks.
- Lost Creek shale. *See* Permian strata.
- Lott chalk. *See* Cretaceous strata.
- Louann salt. *See* Permian strata.
- Loving County. *See also* Toyah basin.
- Cross sections: Doherty, 1938; West Texas Geol. Soc., 1949.
- Ground water: Sayre, 1942a.
- Historical geology: Adams, J. E., 1936.
- Oil and gas. *See* Wheat field under Oil and gas.
- Potash: Hayes, E. P., 1933.
- Lubbock County.
- Basement rocks: Patton, 1947.
- Geophysics: Barnes, B. A., 1948.
- Ground water: Barnes, B. A., 1948; Barnes, J. R., 1949; Broadhurst, 1949; Lang, J. W., 1945; Texas State Bd. Water Engrs.
- Lake deposits: Reed, E. L., 1939.
- Lubbock County—Continued
- Meteorite: Barnes, V. E., 1940a; Foshag, 1940; Waldschmidt, 1940.
- Oil and gas: Hill, J., 1942.
- Paleontology: Evans, G. L., 1950; Meade, 1942.
- Sand and dust storms: Sidwell, 1938.
- Stratigraphy: Barnes, J. R., 1949.
- Well records. *See also* Ground water, above.
- Patton, 1947.
- Lueders limestone. *See* Permian strata.
- Luling-Mexia-Talco fault system. *See* Faults and fractures.
- Lynn County.
- Cross section: Ellison, 1950.
- Ground water: Broadhurst, 1949.
- Paleontology: Stainbrook, 1940.
- Stratigraphy: Evans, G. L., 1945; Sidwell, 1936.
- Well records: Broadhurst, 1949.
- Lytle limestone. *See* Permian strata.
- McCulloch County.
- Clay, ceramic: Pence, 1949a.
- Field trip: Abilene Geol. Soc., 1950.
- Ground water: Sundstrom, 1949.
- Maps, geologic: Abilene Geol. Soc., 1950; Barnes, V. E., 1940f, 1940h; Bullard, 1936, 1939a; Cloud, 1948b; Moore, R. C., 1949; Pence, 1949a; Plummer, F. B., 1945, 1950.
- Meteorite: Barnes, V. E., 1940a.
- Paleontology: Bramlette, 1943; Miller, A. K., 1947a; Moore, R. C., 1940b; Plummer, H. J., 1948.
- Rock wool (siliceous limestone): Plummer, F. B., 1944a.
- Stratigraphy: Bullard, 1936; Cloud, 1948b; Plummer, F. B., 1950.
- Well records: Sundstrom, 1949.
- McCutcheon volcanic series. *See* Tertiary strata and rocks.
- McElroy member. *See* Tertiary strata and rocks.
- McKee sand. *See* Ordovician strata.
- McLennan County.
- Balcones fault: Bryan, F., 1933; Sheets, 1947.
- Geology, general: U. S. Dept. Agriculture, 1942.
- Ground water: Potter, 1939; Sundstrom, 1948.
- Meteorite: Barnes, V. E., 1940a.
- Paleontology: Cushman, 1940d; Figgins, 1933; Graham, J. J., 1949; Lynch, 1933; McAnulty, 1941a.
- Reefs: Nelson, H. F., 1949.
- Soils: U. S. Dept. Agriculture, 1942.
- Stratigraphy: Ellison, 1934; Lozo, 1949; Stephenson, L. W., 1937a.
- Well records: Sundstrom, 1948.
- McMullen County.
- Cross section: Deussen, 1939.
- Geophysics: West, 1946.
- Oil and gas. *See also* Lomo Alto—Seven Sisters area under Oil and gas fields. Cooper, H. H., 1935, 1937.
- Paleontology: Stephenson, M. B., 1945.
- Well records: Rinehart, 1942.
- McMurtry sand. *See* Tertiary strata and rocks.
- Madison County.
- Ground water: Sundstrom, 1948.
- Oil and gas. *See* Madisonville field under Oil and gas.
- Well records: Rinehart, 1942.
- Magdalena group. *See* Pennsylvanian strata.
- Magnesite: Chelf, 1941; Evans, G. L., 1941a; McCammon, 1941; Schoch, 1938; Sellards, 1940b, 1946b.

- Magnesium: Barnes, V. E., 1947a, 1950; Chelf, 1941; Cloud, 1948b; King, P. B., 1948; McCammon, 1941; Schoch, 1938; Stenzel, 1948; Warren, 1946a; Weitz, 1942.
- Magnesium chloride: Kinney, 1948e; Sellards, 1946b.
- Magnesium sulfate: Kinney, 1948e; Sellards, 1946b.
- Magnetic data. *See* Geophysics.
- Magnetite. *See* Iron deposits and minerals.
- Main Street limestone. *See* Cretaceous strata.
- Malone formation. *See* Jurassic strata.
- Malone Mountains, Hudspeth County.
- Historical geology: Albritton, 1938.
- Map, geologic: Albritton, 1938.
- Paleontology: Albritton, 1937, 1937a, 1937c, 1937d.
- Stratigraphy: Adkins, 1933a; Albritton, 1938, 1949; King, P. B., 1942.
- Structure: Albritton, 1938; Baker, C. L., 1935a.
- Mammalia. *See* Paleontology.
- Mammoths. *See* Paleontology, Proboscidea.
- Maness shale. *See* Cretaceous strata.
- Manganese minerals and ores: Baker, C. L., 1935b; Hewett, 1937; Kinney, 1948g; Sellards, 1940b, 1946b; Warren, 1942, 1946.
- Mangum dolomite. *See* Permian strata.
- Manning beds. *See* Tertiary strata and rocks.
- Mansfield Dam. *See* Marshall Ford (Mansfield) Dam area, Travis County.
- Manzanita limestone. *See* Permian strata.
- Maps. *See* specific counties; general areas; Geologic maps; Oil and gas.
- Marathon limestone. *See* Ordovician strata.
- Marathon region (including basin, dome, uplift), Brewster and Pecos counties: Adkins, 1933a; Sheldon, W., 1940.
- Field trips: Darton, 1938a; Graves, 1949; West Texas Geol. Soc., 1940a, 1946a, 1949d.
- Flysch and molasse: Eardley, 1947.
- Geology, general: King, P. B., 1938b.
- Geomorphology: King, P. B., 1938b.
- Glaciation: Carney, 1935.
- Ground water: King, P. B., 1938b.
- Igneous rocks: King, P. B., 1938b.
- Maps, geologic: King, P. B., 1938b; Graves, 1949.
- Novaculite: Baker, C. L., 1935c; King, P. B., 1938b.
- Oil and gas prospects: King, P. B., 1938b.
- Paleogeography: King, P. B., 1938b.
- Paleontology: Aberdeen, 1940; Cloud, 1948; Decker, C. E., 1941, 1944; Ellison, 1941a; Graves, 1941; King, P. B., 1938b; Plummer, F. B., 1937c; Turner, F. E., 1939.
- Petrography: King, P. B., 1938b.
- Stratigraphic correlation: Harlon, 1934.
- Stratigraphy: Barton, J. M., 1945; Darton, 1933a; King, P. B., 1938b; Sellards, 1933b.
- Structure: Baker, C. L., 1935a; Darton, 1933a; King, P. B., 1935, 1938b.
- Unconformities: Arick, 1936.
- Maravillas chert. *See* Ordovician strata.
- Marble. *See* Metamorphic rocks.
- Marble Falls limestone. *See* Pennsylvanian strata.
- Marfa basin, Hudspeth and Presidio counties.
- Geology, general: DeFord, 1950.
- Geophysics: Wilson, J. H., 1950.
- Stratigraphy: Albritton, 1949; King, P. B., 1942.
- Marginulina* zone. *See* Tertiary strata and rocks.
- Marion County.
- Earthquake: Burr, 1943a.
- Ground water: Sundstrom, 1948; Texas State
- Marion County—Continued
- Bd. Water Engrs.
- Maps, geologic: Broadhurst, 1950a; Eckel, 1938.
- Iron ore: Anderson, G. H., 1942; Baker, C. L., 1935b; Eckel, 1938.
- Oil and gas. *See also* Rodessa field under Oil and gas. Tucker, M., 1937.
- Well records. *See* Ground water, above.
- Mariscal Mountain, Brewster County.
- Maps, geologic: Yates, 1943a.
- Mercury: Yates, 1943a.
- Structure: Baker, C. L., 1935a.
- Marlin chalk. *See* Cretaceous strata.
- Marquez shale. *See* Tertiary strata and rocks.
- Marshall Ford (Mansfield) Dam area, Travis County: Darnell, 1946; Holland, W. Y., 1937; Nickell, F. A., 1942.
- Marthasville formation. *See* Tertiary strata and rocks.
- Martin County.
- Cross section: Dickey, 1940.
- Field trip: Scott, G., 1941.
- Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.
- Well records. *See* Ground water, above.
- Martin sand. *See* Pennsylvanian strata.
- Martite. *See* Iron deposits and minerals.
- Mason County. *See also* Spiller manganese mine.
- Braunite: Hewett, 1937.
- Building stone: Barnes, V. E., 1939a, 1947a.
- Cassiterite. *See* Tin, below.
- Caves: White, P. J., 1948a.
- Concretion-like masses: Anonymous, 1934.
- Field trip: Abilene Geol. Soc., 1950.
- Ground water: Texas State Bd. Water Engrs.
- Iron minerals: Baker, C. L., 1935b; Barnes, V. E., 1949; Evans, A. M., 1947a; U. S. Bur. Mines, 1944.
- Magnesite: Evans, G. L., 1941a; McCammon, 1941.
- Manganese: Baker, C. L., 1935b; Hewett, 1937; Warren, 1946.
- Maps, geologic: Abilene Geol. Soc., 1950; Barnes, V. E., 1940f, 1940h, 1947a; Bullard, 1939a; Cloud, 1948b; Decker, C. E., 1945; McCammon, 1941; Warren, 1946.
- Paleontology: Bridge, 1940; Decker, C. E., 1944a, 1945; Moore, R. C., 1940b.
- Rock wool (siliceous limestone): Plummer, F. B., 1944a.
- Sand, industrial: Plummer, F. B., 1942b.
- Soapstone: Barnes, V. E., 1947a.
- Stratigraphy: Cloud, 1948b; Plummer, F. B., 1950.
- Tin: Evans, G. L., 1941a; McCammon, 1941.
- Topaz: McCammon, 1941; Sellards, 1946b.
- Well records: Texas State Bd. Water Engrs.
- Mastodons. *See* Paleontology, Proboscidea.
- Matagorda County.
- Cross section: Deussen, 1939.
- Geophysics: Eby, 1935; Howell, L. G., 1940; Jenny, 1935, 1936; Rosaire, 1938; Swan, 1942.
- Ground water: Sundstrom, 1948, 1949a; Texas State Bd. Water Engrs.
- Oil and gas. *See* Armour, Bay City, Blessing, Buckeye, Buttermilk Slough, Citrus Grove, Gulf, Hammon, Hawkinsville, Lucky, Markham, Midfields, Palacios, Sheppards Mott, Sugar Valley, Tidehaven, and Van Vleck fields under Oil and gas.
- Salt domes. *See* Gulf (Big Hill), Hawkinsville, and Markham domes under Salt domes.

- Matagorda County**—Continued
 Subsidence: Clapp, 1935.
 Sulfur: Baker, C. L., 1935.
 Well records. *See* Ground water, above.
- Maverick County**. *See also* Chittim arch.
 Coal: Baker, C. L., 1935c.
 Cross section: South Texas Geol. Soc., 1949a.
 Ground water: Broadhurst, 1950; Texas State Bd. Water Engrs.
 Map, geologic: Wynd, 1944a.
 Meteorite: Barnes, V. E., 1940a.
 Paleontology: Dunkle, 1948; Stenzel, 1943, 1943a, 1943b; Stephenson, L. W., 1937b.
 Soil survey: Smith, H. M., 1942.
 Stratigraphy: Gardner, J. A., 1935; Sandidge, 1946.
 Well records: Texas State Bd. Water Engrs.
- Maxon sandstone**. *See* Cretaceous strata.
- Medicine Lodge dolomite**. *See* Permian strata.
- Medill volcanic zone**. *See* Cretaceous strata.
- Medina County**.
 Caves: White, P. J., 1948a.
 Clay, ceramic: King, P. B., 1940a.
 Faults: Sellards, 1935c.
 Field trip: South Texas Geol. Soc., 1937a.
 Geology, general: Sayre, 1936.
 Ground water: Broadhurst, 1950; Sayre, 1936, 1942.
 Maps, geologic: Darton, 1933; King, P. B., 1940a; Sayre, 1936; Stephenson, L. W., 1941a.
 Paleontology: Ikins, 1940; South Texas Geol. Soc., 1937a.
 Stratigraphy: Ellisor, 1934; Gardner, J. A., 1935; Stephenson, L. W., 1937a.
 Well records: Sayre, 1936.
- Meek Bend limestone**. *See* Pennsylvanian strata.
- Menard County**.
 Geomorphology (limestone sink): Blakemore, 1939.
 Map, geologic: Abilene Geol. Soc., 1950.
- Menefee sand**. *See* Tertiary strata and rocks.
- Mercury (quicksilver) minerals and ores**: Baker, C. L., 1935b; Duncan, 1937; Evans, A. M., 1947; Johnson, J. H., 1943, 1946a; Mosier, 1944; Ross, 1934, 1935, 1935a, 1941, 1942; Sellards, 1940b, 1946b; Smith, W., 1944; Von Bernewitz, 1937; Yates, 1942, 1943, 1943a, 1944, 1944a, 1949.
- Merkel dolomite**. *See* Permian strata.
- Merriman limestone**. *See* Pennsylvanian strata.
- Mesa de Anguila**, Brewster County: Baker, C. L., 1935a; Keyes, 1941c.
- Mesozoic**. *See also* Triassic; Jurassic; Cretaceous.
 Correlations: Blanpied, 1939; Dott, 1941; Philpott, 1949.
 Cross section: South Texas Geol. Soc., 1949a.
 Deformational movements: Sellards, 1935c.
 Igneous rocks: Moody, 1949.
 Sedimentary volumes: Murray, G. E., 1950a.
 Sediments: Colle, 1950.
- Metamorphic rocks**. *See also* specific rocks of geologic systems. Huffington, 1943; Stenzel, 1936.
 Building and construction materials: Baker, C. L., 1935c; Barnes, V. E., 1944, 1947a.
 Caldwell County: Rasmussen, 1947.
 Deep well, Winkler County: Patton, 1945.
 Gneiss: Baker, C. L., 1935c; Barnes, V. E., 1943b, 1946a, 1947a.
 Marble: Baker, C. L., 1935c; Barnes, V. E., 1944, 1947a; Schoch, 1938; Sellards, 1946b.
 Phyllite: Baker, C. L., 1935c.
 Quartzite: Baker, C. L., 1935c; Keyes, 1940a.
 Schist: Baker, C. L., 1935c.
- Metamorphic rocks**—Continued
 Serpentine. *See* Serpentine.
 Slate: Baker, C. L., 1935c.
 Soapstone. *See* Soapstone.
- Meteorites**.
 Allen, Collin County: Monnig, 1946b.
 Bartlett, Bell County: Bullard, 1940.
 Bluff, Fayette County: Barnes, V. E., 1940c.
 Catalogue or list: Barnes, V. E., 1940a; Monnig, 1935a.
 Cuero, DeWitt County: Barnes, V. E., 1940b, 1940c.
 Davis Mountains, Jeff Davis County: Nininger, 1936.
 Fayette County: Sedlmayer, 1939.
 Kendleton, Fort Bend County: Fouts, 1940.
 Kimble County: Barnes, V. E., 1940c, 1940e.
 Lubbock, Lubbock County: Waldschmidt, 1940.
 Monahans, Ward County: Buddhue, 1939; Nininger, 1939.
 Nordheim, DeWitt County: Barnes, V. E., 1940d.
 North Texas: King, R. H., 1936.
 Odessa, Ector County: Boon, 1940; Evans, G. L., 1941a; Lord, 1941; Monnig, J. A., 1942; Monnig, 1935; Nininger, 1933, 1934; Sellards, 1935d, 1941c; Spencer, 1933; West Texas Geol. Soc., 1940.
 Peña Blanca Spring, Brewster County: Lonsdale, 1947; Monnig, 1946, 1946a.
 Plainview, Hale County: Nininger, 1936.
 Plantersville, Grimes County: Lonsdale, 1937b.
 Pseudotachylite in: Barnes, V. E., 1940e.
 Roschud, Milam County: Bullard, 1939.
 Schertz, Guadalupe County: Monnig, 1941.
 Shallowater, Lubbock County: Foshag, 1940.
- Mexia clay**. *See* Tertiary strata and rocks.
- Mexia-Luling-Talco fault system**. *See* Faults and fractures.
- Mexico** (adjacent to Texas).
 Conchos Valley, Chihuahua: King, R. E., 1946.
 Field trips: South Texas Geol. Soc., 1941, 1948.
 Geologic history, petroleum exploration: Kellum, 1944.
 Juarez Mountains, Chihuahua: Strain, 1950.
 Maps, geologic: Kane, 1935; Porch, 1941; South Texas Geol. Soc., 1941.
 Paleogeography: Kellum, 1936; Storm, 1941.
 Paleontology: Gardner, J. A., 1945; Inlay, 1940; Wells, 1946.
 Stratigraphy: Kane, 1935; Keller, 1937.
 Structural geology: Kane, 1936; Storm, 1941.
- Mica**: Baker, C. L., 1935b; Holt, 1947; Redfield, 1946; Sellards, 1940b, 1946b.
- Microfossils**. *See* Paleontology.
- Microseisms**: Jennemann, 1949.
- Midland basin**, west Texas. *See also* comprising counties. Cole, 1938.
 Cross sections: Page, 1940; West Texas Geol. Soc., 1949.
 Stratigraphy: King, P. R., 1942; Lewis, F. E., 1941; Page, 1940; West Texas Geol. Soc., 1949.
- Midland County**.
 Cross sections: Doherty, 1938; Ellison, 1950; West Texas Geol. Soc., 1949.
 Field trip: Scott, G., 1941.
 Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.
 Meteorite: Barnes, V. E., 1940a.
 Oil and gas. *See also* Meadows, Pegasus, and Sweetie Peck fields under Oil and gas. Carlson, 1950a.
 Potash: Cunningham, 1935, 1936.

Midland County—Continued

Soil survey: Templin, 1933.

Well records. *See also* Ground water, above.
Fagin, 1950.

Midway group. *See* Tertiary strata and rocks.

Mier sandstone. *See* Tertiary strata and rocks.

Milam County.

Clay (kaolin): Pence, 1948.

Coal: Lavine, 1941.

Cross section: South Texas Geol. Soc., 1949a.

Ground water: Sundstrom, 1948; Texas State

Bd. Water Engrs.

Lignite: Selvig, 1950.

Map, geologic: Stephenson, L. W., 1941a.

Meteorite: Barnes, V. E., 1940a; Bullard, 1939.

Paleontology: McAnulty, 1941a.

Peat: Plummer, F. B., 1945b.

Well records: Texas State Bd. Water Engrs.

Millersview limestone. *See* Permian strata.

Millican fault. *See* Faults and fractures.

Millican formation. *See* Precambrian rocks.

Millsap Lake formation. *See* Pennsylvanian strata.

Mills County.

Building stone: Barnes, V. E., 1947a.

Celestite: Evans, G. L., 1946b; Havins, 1948.

Map, geologic: Abilene Geol. Soc., 1950.

Mima mounds. *See* Geomorphology.

Minerals. *See also* Gem minerals; general areas;
specific counties; specific minerals.

Localities: Anonymous, 1934; Huffington, 1943;
Miles, 1941; Moore, J. R., 1947; Sellards,
1946a, 1946b.

Petroleum exploration technique: Lasky, 1950.

Production: Sellards, 1935d, 1946a, 1946b; U. S.

Bur. Mines, 1950.

Resources: Baker, C. L., 1944; Cunningham,
1946; Plummer, F. B., 1934; Sellards, 1944,
1944a; U. S. Bur. Mines, 1948.

Mineral water. *See* Ground water.

Mineral wool. *See* Rock wool.

Mineral Wells formation. *See* Pennsylvanian strata.

Mingus shale. *See* Pennsylvanian strata.

Mint Springs member. *See* Tertiary strata and rocks.

Miocene series. *See* Tertiary strata and rocks.

Mirando sand. *See* Tertiary strata and rocks.

Mississippian.

Classification: Cheney, 1945.

Correlations: Cloud, 1948b; Dott, 1941; Shimer,
1934.

Deposition: Barton, J. M., 1945.

Field trips: Abilene Geol. Soc., 1950; Ardmore
Geol. Soc., 1937; Plummer, F. B., 1939.

Nomenclature: Cheney, 1945; Moore, R. C., 1936.

Paleogeography. *See* Paleogeography.

Paleogeology. *See* Paleogeology.

Paleontology. *See* Paleontology and *also* Strata,
below.

Paleotectonic map: Eardley, 1949.

Strata.

Barnett shale.

Building stone: Barnes, V. E., 1947a.

Correlation: Cloud, 1948b.

Divisions: Plummer, F. B., 1941a, 1942.

Oil extraction: Plummer, F. B., 1944b.

Paleontology: Cloud, 1948b; Hass, 1941;

Miller, A. K., 1940b, 1948, 1950a;

Plummer, F. B., 1936, 1937a, 1950;
Sellards, 1933b.

Stratigraphy: Applin, P. L., 1942;

Cloud, 1946, 1948b; Plummer, F. B.,
1936, 1940, 1950; Sellards, 1933b.

Mississippian—Continued

Strata—Continued

Chappel formation.

Age: Plummer, F. B., 1942.

Correlation: Cloud, 1948b.

Divisions: Plummer, F. B., 1941a.

Paleontology: Cloud, 1948b; Moore,
R. C., 1940e, 1942; Plummer, F. B.,
1950.

Stratigraphy: Applin, P. L., 1942;
Barnes, V. E., 1945; Cloud, 1946,
1948b; Plummer, F. B., 1950; Sellards,
1933b.

General stratigraphy: Cole, 1942c; Dott,
1941; Fritz, 1940; King, P. B., 1934b;
Plummer, F. B., 1938a; Warner, 1939.

Helms formation.

Paleontology: King, P. B., 1945; Miller,
A. K., 1940b; Sohn, 1950a.

Stratigraphy: King, P. B., 1945; Nel-
son, L. A., 1940; Sellards, 1933b.

Ives conglomerate.

Correlation: Cloud, 1948b.

Paleontology: Cloud, 1948b.

Petrography: Cloud, 1948b.

Stratigraphy: Cloud, 1948b.

Unconformities: Cheney, 1936.

Underground position: Sellards, 1933b.

Mitchell County.

Anthropology: Ray, 1948.

Cross sections: Doherty, 1938; Page, 1940; West
Texas Geol. Soc., 1949.

Field trip: Scott, G., 1941.

Ground water: Broadhurst, 1949.

Oil and gas. *See also* Westbrook field under Oil
and gas. Deegan, 1949c.

Sedimentation: Ray, 1948.

Well records: Broadhurst, 1949.

Mitchell Mesa rhyolite. *See* Tertiary strata and rocks.

Mitchell's Ferry beds. *See* Tertiary strata and rocks.

Mitre Peak area, Jeff Davis County: Ives, R. L.,
1941.

Molding sand. *See* Sand.

Mollusca. *See* Paleontology.

Molybdenum minerals: Baker, C. L., 1935b; Barnes,
V. E., 1946b; Sellards, 1940b, 1946b; Stenzel,
1940e.

Monahans sands. *See* Quaternary strata and deposits.

Montague County.

Anticlines: Billings, 1934.

Asphalt: Baker, C. L., 1935c; Evans, G. L.,
1941a.

Bituminous sand: Stenzel, 1948b.

Geothermal data: Barnes, V. E., 1946d.

Ground water: Broadhurst, 1944a; Sundstrom,
1949.

Map, geologic: Adkins, 1933a.

Oil and gas. *See also* Bonita, Bowers, Hildreth,
Nocona, Rogers, and Salona fields under Oil
and gas. Ingram, R., 1942a; Stormont, 1939.

Oil field waters: Barnes, V. E., 1946d.

Paleobotany: Chelf, 1946.

Paleontology: McAnulty, 1941a; Witte, 1942.

Well records. *See also* Ground water, above. Oil
and Gas Jour., 1942c.

Montgomery County.

Geophysics: Jenny, 1942.

Ground water: Guyton, 1945; Sundstrom, 1948;
White, W. N., 1939; Texas State Bd. Water
Engrs.

Oil and gas. *See also* Conroe, Fostoria, Lake
Creek, Magnolia, and Pinchurst fields under
Oil and gas. Gross, 1933; Lasky, 1950; Smith,
E. R., 1936a.

- Montgomery County—Continued
 Paleontology: Gravell, 1936.
 Well records: Rinehart, 1942; Sundstrom, 1948; Texas State Bd. Water Engrs.; White, W. N., 1939.
- Montoya limestone. *See* Ordovician strata.
- Monument Spring dolomite member. *See* Ordovician strata.
- Moodys Branch marl. *See* Tertiary strata and rocks.
- Moore County.
 Geomorphology: Stainbrook, 1941a.
 Ground water: Broadhurst, 1949.
 Oil and gas. *See also* Panhandle field under Oil and gas. Fosshage, 1945.
 Stratigraphy: Rogatz, 1939b; Warren, 1946a.
 Structure: Rogatz, 1939b.
 Well records: Fosshage, 1945.
- Moran formation. *See* Permian strata.
- Morgan Creek limestone. *See* Cambrian strata.
- Morris County.
 Clay, ceramic: King, P. B., 1940a.
 Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.
 Iron ore: Anderson, G. H., 1942; Eckel, 1938.
 Maps, geologic: Broadhurst, 1950a; Eckel, 1938; King, P. B., 1940a.
 Well records. *See* Ground water, above.
- Motley County.
 Conglomerates: Roth, 1943.
 Ground water: Broadhurst, 1949.
 Oil field waters: Barnes, V. E., 1946d.
 Well records: Broadhurst, 1949.
- Mounds (mima, pimple, sand, soil). *See* Geomorphology.
- Mount Ord Range, Brewster County: Baker, C. L., 1935a.
- Mount Selman formation. *See* Tertiary strata and rocks.
- Mount Tabor shale. *See* Tertiary strata and rocks.
- Muenster arch, north-central Texas: Billings, M. H., 1934; Cheney, 1936, 1938, 1940, 1947a; Sellards, 1935c.
- Mustelidae. *See* Paleontology, Carnivora.
- Nacatoch sand. *See* Cretaceous strata.
- Nacogdoches County.
 Ground water: Guyton, 1942, 1945; Sundstrom, 1948; Texas State Bd. Water Engrs.
 Map, geologic: Guyton, 1942.
 Oil mine. *See* Nacogdoches field under Oil and gas.
 Paleontology: Stenzel, 1943b.
 Soils: Chambers, W. T., 1941a.
 Well records: Rinehart, 1942; Sundstrom, 1948; Texas State Bd. Water Engrs.
- Natural gas. *See* Oil and gas.
- Nautiloidea. *See* Paleontology.
- Navarro County.
 Clay (kaolin): Pence, 1948.
 Geothermal data: Van Orstrand, 1933.
 Ground water: Sundstrom, 1948.
 Map, geologic: Stephenson, L. W., 1941a; Oil and Gas Jour., 1942e.
 Oil and gas. *See also* Currie, Richland, and Powell fields under Oil and gas. Rister, 1949.
 Paleontology: Albritton, 1937b; Cushman, 1936c, 1940a, 1940d; Evans, G. L., 1941a; McNulty, 1941a; Stenzel, 1943; Stephenson, L. W., 1937b.
 Stratigraphy: Ellisor, 1934; Gardner, J. A., 1935.
 Well records: Sundstrom, 1948.
- Navarro County—Continued
 Zonation, Cretaceous: Albritton, 1937b.
- Navarro group. *See* Cretaceous strata.
- Neville formation. *See* Quaternary strata and deposits.
- Newby member. *See* Tertiary strata and rocks.
- Newton County.
 Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.
 Oil and gas. *See* Call, Gist, and Sabine Tram fields under Oil and gas.
 Paleontology: McNulty, 1941a; Stenzel, 1944a, 1944d.
 Stratigraphy: Stenzel, 1944d.
 Well records. *See also* Ground water, above. Rinehart, 1942.
- Neylandville marl. *See* Cretaceous strata.
- Nickel: Barnes, V. E., 1940g.
- Nitrate: Baker, C. L., 1935b; Mansfield, 1935; Sellards, 1946b.
- Nitrogen: Baden, M. W., 1945; Bybee, 1938; Dobbin, 1935; Donnelly, 1941; Lang, W. B., 1943.
- Nocona limestone. *See* Pennsylvanian strata.
- Nolan County.
 Anthropology: Ray, 1948.
 Celestite: Dennis, 1947; Evans, G. L., 1941a, 1942, 1946b; Harness, 1942; Stenzel, 1948f.
 Cross sections: Doherty, 1938; West Texas Geol. Soc., 1949.
 Field trip: Scott, G., 1941.
 Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.
 Map, geologic: Roth, 1937.
 Oil and gas: Deegan, 1949g.
 Sedimentation: Ray, 1948.
 Stratigraphy: Evans, G. L., 1941a; Roth, 1937.
 Well records. *See* Ground water, above.
- Noodle Creek limestone. *See* Pennsylvanian strata.
- Norphlet formation. *See* Jurassic strata.
- North-central Texas. *See also* comprising counties; Bend arch; Concho arch; Electra arch; Fort Worth basin; Muenster arch; North Texas; Osage Plains; Red River uplift; Richland Spring uplift; Strawn basin; Trinity River tributary area.
 Biostratigraphy: Lozo, 1942.
 Brazos and Colorado River sections, comparison: Lee, W., 1938b.
 Clay, ceramic: Pence, 1949a; Plummer, F. B., 1949.
 Coal: Baker, C. L., 1935c.
 Copper: Baker, C. L., 1935b; Bastin, 1933.
 Cross sections: Cheney, 1940; Gee, 1950; Lee, W., 1938.
 Elevations: Staack, 1942.
 Field trip: Abilene Geol. Soc., 1949.
 Geology, general: Cheney, 1940; Lee, W., 1938.
 Geothermal data: Barnes, V. E., 1946d.
 Ground water: Sundstrom, 1949; White, G. F., 1935.
 Gypsum: Moyer, 1939.
 Map, geologic: Lee, W., 1938.
 Oil and gas. *See* Oil and gas, general areas.
 Oil field waters: Barnes, V. E., 1946d.
 Paleontology: Dunbar, 1936a; Henbest, 1938; Jeffords, 1947; Kellett, 1943; King, R. H., 1933, 1938a; Lee, W., 1938; Lozo, 1942; Miller, A. K., 1940b, 1947, 1949a, 1950; Moore, R. C., 1949; Newell, 1940; Plummer, F. B., 1937c; Romer, 1935; Williams, J. S., 1936, 1938.
 Stratigraphic correlations: Cheney, 1943, 1947a; Hendricks, L., 1940; Needham, 1940.
 Stratigraphic nomenclature: Moore, R. C., 1936.

North-central Texas—Continued

Stratigraphy: Cheney, 1940, 1947a; Cross, A. T., 1950; Crowley, 1945, 1945a, 1946; Dott, 1941; Hendricks, L., 1940, 1941; Lee, W., 1938; Lozo, 1949; Moore, R. C., 1940, 1946, 1949; Sellards, 1933b; Thompson, S. A., 1935.

Structure: Cheney, 1938, 1940.

Unconformities: Cheney, 1936; North Texas Geol. Soc., 1935.

Well records: Hendricks, L., 1940; Sundstrom, 1949.

Northeast Texas. *See also* comprising counties; East Texas; East Texas basin; Sabine uplift; Tyler basin.

Evaporites: Hazzard, 1947a.

Fault line: Hager, 1936.

Field trip: East Texas Geol. Soc., 1945a.

Geothermal data: Lowman, 1934.

Ground water: Lowman, 1934.

Historical geology: Bignell, 1936a.

Iron ore: Baker, C. L., 1935b; Eckel, 1935; Stenzel, 1944e.

Lignite: Baker, C. L., 1935c.

Map, geologic: Murray, G. E., 1945; Swain, 1949.

Mounds: Rich, 1934.

Oil and gas. *See* Oil and gas, general areas.

Paleontology: Stephenson, L. W., 1946; Swain, 1945.

Stratigraphic correlations: Imlay, 1944; Monroe, W. H., 1946.

Stratigraphy: Adkins, 1933a; Bailey, 1945; Dott, 1941; Hazzard, 1939a, 1939b, 1947a; Lozo, 1948; Murray, G. E., 1945; Swain, 1949.

Structural features: Bignell, 1936a.

Well records: Imlay, 1944.

North Texas. *See also* comprising counties; North-central Texas.

Biostratigraphy: Lozo, 1941, 1943, 1944.

Cross section: Thompson, W. C., 1937.

Geology, general: Ruedemann, P., 1939.

Meteorites: King, R. H., 1936.

Oil and gas. *See* Oil and gas, general areas.

Ouachita orogeny: Keyes, 1939a.

Paleobotany: Elias, 1947; White, C. D., 1936.

Paleogeography: Clifton, 1944.

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Sedimentation. *See* Sedimentation.

Stratigraphic correlation: Newell, 1938.

Stratigraphy: Anderson, G. E., 1933; Dott, 1941; Lozo, 1943.

Structure: Van Weelden, 1933.

Volcanic ash: Sidwell, 1946; Swineford, 1949.

Northwestern shelf area: Waldschmidt, 1950.

Novaculite: Baker, C. L., 1935c; Evans, G. L., 1944, 1946c; King, P. B., 1938b; Sellards, 1946b.

Nueces County.

Cross section: Deussen, 1939.

Fissures: Sheets, 1947.

Geomorphology (dunes): Huffman, 1949a.

Ground water: Broadhurst, 1950; Price, W. A., 1935; Texas State Bd. Water Engrs.

Map, geologic: Livingston, 1936a.

Microseisms: Jennemann, 1949.

Oil and gas. *See also* Agua Dulce, East White Point, Flour Bluff, Saxet, Stratton, and West Saxet fields under Oil and gas. Price, W. A.,

Nueces County—Continued

1936; Williams, N., 1941.

Paleontology: Harris, R. W., 1937.

Stratigraphy: Martyn, 1941.

Topography: Price, W. A., 1933.

Well records: Broadhurst, 1950; Texas State Bd. Water Engrs.

Nueces River. *See* Streams.

Oakville sandstone. *See* Tertiary strata and rocks.

Obregon formation. *See* Pennsylvanian strata.

Ochiltree County.

Ground water: Broadhurst, 1949; Texas State

Bd. Water Engrs.

Well records. *See* Ground water, above.

Ochoa series. *See* Permian strata.

Ocotillo silt member. *See* Permian strata.

Ogallala formation. *See* Tertiary strata and rocks.

O'Hern sand. *See* Tertiary strata and rocks.

Oil and gas. *See also* counties.

Accumulation (including traps). *See also* Migration, below. Adams, J. E., 1943; Bartley, 1950; Bediz, 1942; Bignell, 1933; Brodie, 1949; Carroll, 1943; Clark, F. R., 1934; Dake, C. L., 1934; Deegan, 1949b; Denham, 1941; Dorsey, 1933; Freeman, 1949; Getzender, F. M., 1943; Halbouty, M. T., 1938a; Houston Geol. Soc., 1947; Howell, J. V., 1948; Illing, 1946, 1946a; Jones, R. A., 1933; King, R. E., 1942; Levorsen, 1933, 1934, 1936, 1941, 1941b, 1943; Lowman, 1949; McCoy, 1934; Malkin, 1941; Miser, 1934a; Oil and Gas Jour., 1942, 1942b, 1942e, 1942h, 1942i; Paschal, 1941; Plummer, F. B., 1934b, 1938, 1942a, 1944c; Ritz, 1936; Sellards, 1938d; Stewart, 1949; Tarr, R. S., 1934; Tomlinson, 1934; Weinzierl, 1936; Wilson, W. B., 1934; Young, A., 1933.

Analyses, character and composition: A. I. M. E.; Barton, D. C., 1934, 1935a, 1937c, 1941; Bell, K. G., 1940; Brooks, 1949; Guthrie, 1944; Hughes, 1948; Kraemer, 1939; Lane, 1943; Lindsley, 1933; McKinney, 1948; Natl. Oil Scouts and Landmen's Assoc.; R. R. Comm. Texas, 1940; Wade, 1934.

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Exploration methods. *See also* Geochemistry; Geophysics.

Electronics: Balter, 1950.

Geothermal data: Van Orstrand, 1941.

Paleogeography: Adams, J. E., 1943; Getzender, F. M., 1943.

Paleogeology: Levorsen, 1933.

Radioactivity, soil gases: Howell, L. G., 1934; Sterrett, 1944.

Surface minerals: Lasky, 1950.

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Abell, Pecos County: Oil and Gas Jour., 1941b.

Adair, Terry County: Fagin, 1950b.

Addicks, Harris County: Gardner, F. J., 1948.

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 Aldine, Harris County: Gardner, F. J., 1948.
 Alexander-Myatt, Jones County: Byram, 1950.
 Alief, Harris County: Gardner, F. J., 1948.
 Allen, Brazoria County. *See also* Salt domes.
 Gardner, F. J., 1948.
 Allen and Ritchie, Palo Pinto County: Plummer, F. B., 1936.
 Alta Loma, Galveston County: Gardner, F. J., 1948.
 Altair, Colorado County: Gardner, F. J., 1948.
 Amelia, Jefferson County: Gardner, F. J., 1948; Hammer, 1939; Houston Geol. Soc., 1941; Oil and Gas Jour., 1937c.
 Anahuac, Chambers County: Bader, 1947; Carpenter, 1941; Gardner, F. J., 1948; Halbouty, M. T., 1937; Leyendecker, 1937; Oil and Gas Jour., 1937a; Rall, 1949; Williams, N., 1935a.
 Angleton, Brazoria County: Gardner, F. J., 1948.
 Antelope, Clay County: Lambert, 1949.
 Apco, Pecos County: Cole, 1940; Ellison, 1948.
 Arick, Floyd and Hale counties: Shepherd, 1949.
 Armour, Matagorda County: Gardner, F. J., 1948.
 Arnim, Fayette County: Gardner, F. J., 1948.
 Arriola, Hardin County: Gardner, F. J., 1948.
 Aspermont, Stonewall County: Haase, 1940.
 Avoca, Jones County: Adams, H. H., 1939; Oil and Gas Jour., 1938f; Wesselhoeft, 1949.
 Bailey's Prairie, Brazoria County: Gardner, F. J., 1948.
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 Barbers Hill, Chambers County. *See also* Salt domes. Gardner, F. J., 1948; Halbouty, M. T., 1938a, 1939; Houston Geol. Soc., 1941; Oil and Gas Jour., 1942b.
 Barnhart, Reagan County: Cole, 1942b.
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 Bateman Ranch, King County: Walker, 1950.
 Batson, Hardin County: Gardner, F. J., 1948.
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Fields—Continued

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 Block 31, Crane County: Park, 1949.
 Blue Basin, Wharton County: Gardner, F. J., 1948.
 Blue Lake, Brazoria County: Gardner, F. J., 1948.
 Blue Ridge, Fort Bend County: Gardner, F. J., 1948.
 Boggy Creek, Anderson and Cherokee counties: Clark, G. C., 1949a.
 Boling, Wharton County. *See also* Salt domes. Gardner, F. J., 1948.
 Bonita, Montague County: Gill, 1940.
 Borden Abel, Wharton County: Gardner, F. J., 1948.
 Borregas, Kleberg County: Deegan, 1946a.
 Bowers, Montague County: Brown, A. B., 1943.
 Brazos, Palo Pinto County: Plummer, F. B., 1936.
 Breckenridge, Stephens County: Donoghue, 1941.
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 Burkburnett, Wichita County: Holland, H. K., 1949.
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 Canyon Reef, Scurry County: Fagin, 1950a.
 Caplen, Galveston County: Gardner, F. J., 1948.
 Carthage, Panola County: Foster, F. K., 1946; Rall, 1949; Williams, N., 1945; Wilhelm, 1950.
 Cayuga, Anderson County: Logan, J., 1934; Peacock, 1944.
 Cedar Bayou, Chambers County: Gardner, F. J., 1948.
 Cedar Lake, Gaines County: McDermott, 1940.
 Cedar Point, Chambers County: Gardner, F. J., 1948; Wilson, J. M., 1938.
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- Chapman, Haskell County: Martin, B. H., 1949.
- Charlotte, Atascosa County: McCallum, 1947.
- Chenango, Brazoria County: Gardner, F. J., 1948.
- Chesterville, Colorado County: Gardner, F. J., 1948.
- Chocolate Bayou, Brazoria County: Gardner, F. J., 1948.
- Chriesman, Burleson County: Gardner, F. J., 1948.
- Church-Fields-McElroy, Crane and Upton counties: Carpenter, 1936.
- Cisco Lake, Eastland County: Adams, H. H., 1938.
- Gistern, Fayette County: Gardner, F. J., 1948.
- Citrus Grove, Matagorda County: Gardner, F. J., 1948.
- Clam Lake, Jefferson County: Gardner, F. J., 1948.
- Clay Creek, Washington County. *See also* Salt domes. Ferguson, W. B., 1936; Gardner, F. J., 1948.
- Clear Lake, Harris County: Gardner, F. J., 1948.
- Cleveland, Liberty County: Gardner, F. J., 1948; Hanna, 1938a.
- Clinton, Harris County: Gardner, F. J., 1948.
- Clodine, Fort Bend County: Colle, 1941; Gardner, F. J., 1948.
- Cogdell, Kent County: Carlson, 1950b.
- Coke, Wood County. *See* Black Oak field.
- Cold Springs, San Jacinto County: Gardner, F. J., 1948.
- Cole, Webb County: Short, R. T., 1935.
- Coleman, Archer County: Bean, W. C., 1941.
- Columbus, Colorado County: Gardner, F. J., 1948.
- Concord, Anderson County: Alexander, C. I., 1944a.
- Conroe, Montgomery County: Gardner, F. J., 1948; Gravel, 1936; Gross, 1933; Halbouty, M. T., 1938a; Houston Geol. Soc., 1941; Michaux, 1936; Schütte, 1934; Williams, N., 1933; Zavoice, 1935.
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- Cotton Lake, Chambers County: Gardner, F. J., 1948.
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- Crescent, Wharton County: Gardner, F. J., 1948.
- Cross Cut-Blake district, Brown County: Klinger, 1941.
- Currie, Navarro County: Clark, S. K., 1944; Hill, H. B., 1943a.
- Curry, Stephens County: McCoy, 1934.
- Daboval, Wharton County: Gardner, F. J., 1948.
- Dalton Ranch, Palo Pinto County: Plummer, F. B., 1936.
- Damon Mound, Brazoria County. *See also* Salt domes. Deussen, 1934; Gardner, F. J., 1948; Houston Geol. Soc., 1941a.
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- Darst Creek, Guadalupe County: Jones, R. A., 1933a; McCallum, 1933.

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- Dean, Hockley and Cochran counties. *See* Slaughter field, below.
- Del Monte, Zavala County: Clark, G. H., 1947.
- Diamond M, Scurry County: Fagin, 1950a; Klinger, 1950; Oil and Gas Jour., 1950g.
- Dickinson, Galveston County: Gardner, F. J., 1948; Oil and Gas Jour., 1937d; Singleton, 1937.
- Dollarhide, Andrews County: Deegan, 1947d; Stormont, 1949.
- Double Bayou, Chambers County: Gardner, F. J., 1948.
- Double "D" area, Shackelford and Stephens counties: Ferguson, C. M., 1949.
- Double Gum, Chambers County: Gardner, F. J., 1948.
- Driscoll, Duval County: Sheldon, I. R., 1933, 1938a.
- Duggan, Cochran County. *See* Slaughter field.
- Dundee area, Archer County: Kadane, 1948.
- Durkee, Harris County: Gardner, F. J., 1948.
- Dyersdale, Harris County: Gardner, F. J., 1948; Singleton, 1941.
- East, Jim Hogg County: Hollingsworth, 1947.
- East Bernard, Wharton County: Gardner, F. J., 1948.
- East Mathis, San Patricio County: Stormont, 1939a.
- East Texas, Cherokee, Gregg, Rusk, Smith, Upshur counties: Barton, D. C., 1937; Campbell, J. L. P., 1944; Cheney, 1940; Clark, S. K., 1944; Donoghue, 1944; Dorsey, 1933; Illing, 1946; Lahee, 1933, 1934; Minor, 1933, 1941; Morris, 1937; Oil and Gas Jour., 1938a, 1942h; Rall, 1949; Rhea, 1940; Ruiz, 1936; Schilthuis, 1934; Zavoice, 1936.
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- Egypt, Wharton County: Gardner, F. J., 1948.
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- Elm Bayou, Chambers County: Gardner, F. J., 1948.
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- Fannett, Jefferson County. *See also* Salt domes. Gardner, F. J., 1948; Hough, 1948.
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- Fort Chadbourne, Coke and Runnels counties: Carlson, 1950c.
- Fostoria, Montgomery County: Gardner, F. J., 1948.
- Fox, Refugio County: Getzendaner, A. E., 1934.
- Fred, Tyler County: Gardner, F. J., 1948.
- Frelsburg, Colorado County: Gardner, F. J., 1948.
- Friendswood (Webster), Harris County: Bell, O. G., 1938; Patrick, 1949; Singleton, 1937a.
- Fullerton, Andrews County: Deegan, 1946; Imbt, W. C., 1947; Moore, J. H., 1944.
- Garwood, Colorado County: Gardner, F. J., 1948.
- Gibson, Taylor County: Mead, 1949; Van Sieten, 1949.
- Gilbert Ranch, Jefferson County: Gardner, F. J., 1948.
- Gist, Newton County: Gardner, F. J., 1948.
- Glasscock, Colorado County: Gardner, F. J., 1948.
- Glendale, Trinity County: Gardner, F. J., 1948.
- Goldsmith, Ector County: Imbt, W. C., 1947; Young, A., 1939.
- Good, Borden County: Rodan, 1950.
- Goodrich, Polk County: Gardner, F. J., 1948.
- Goose Creek, Harris County: Clapp, 1935; Cardner, F. J., 1948; Sheets, 1947.
- Government Wells, Duval County: Cooper, H. H., 1935; Jones, R. A., 1934; Trenchard, 1935; Whisenant, 1935; Williams, N., 1935b.
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- Green Lake, Galveston County: Gardner, F. J., 1948.
- Greta, Refugio County: Getzendaner, A. E., 1934; Oil and Gas Jour., 1933; Stamey, 1935.
- Griffin, Jones County: Adams, H. H., 1939; Wesselhoeft, 1949.
- Gulf (Big Hill), Matagorda County. *See also* Salt domes. Gardner, F. J., 1948.
- Hall's Bayou, Brazoria County: Gardner, F. J., 1948.
- Hamel, Colorado County: Gardner, F. J., 1948.
- Hamman, Matagorda County: Gardner, F. J., 1948.
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- Hankamer, Liberty County: Gardner, F. J., 1948.
- Hardin, Liberty County: Brace, 1936; Casey, 1941; Gardner, F. J., 1948; Nettleton,

Oil and gas—Continued

Fields—Continued

- 1943; Teas, 1935a.
- Hardy, Jones County: Ransone, 1947; Walker, 1949.
- Harmon, Jackson County: Oil and Gas Jour., 1942d.
- Harper, Ector County: Oil and Gas Jour., 1938c.
- Harrold, Wilbarger County: Oil and Gas Jour., 1942a.
- Hart Ranch, Palo Pinto County: Plummer, F. B., 1936.
- Hastings, Brazoria County: Gardner, F. J., 1948; Halbouty, M. T., 1937a; Houston Geol. Soc., 1941a; Oil and Gas Jour., 1937b; Rosaire, 1938.
- Hawkins, Wood County: Flood, 1941; Halbouty, M. T., 1941; McLellan, 1941; Mills, 1941; Oil and Gas Jour., 1941; Wendlandt, 1946.
- Hawkinsville, Matagorda County. *See also* Salt domes. Gardner, F. J., 1948.
- Henderson, Clay County: Hardison, 1940.
- Hendrick, Winkler County: Ackers, 1933; Carpenter, 1936; Sheldon, W., 1940.
- Heyser, Calhoun and Victoria counties: Oil and Gas Jour., 1936b; Singleton, 1937b.
- High Island, Galveston County. *See also* Salt domes. Gardner, F. J., 1948; Halbouty, M. T., 1936.
- Hilbig, Bastrop County: Blackburn, 1935; Smiser, 1935.
- Hildreth, Montague County: Simons, 1948.
- Hillie, Wharton County: Gardner, F. J., 1948.
- Hitchcock, Galveston County: Gardner, F. J., 1948; Halbouty, M. T., 1941b; Houston Geol. Soc., 1941a.
- Hockley, Harris County. *See also* Salt domes. Gardner, F. J., 1948.
- Hoffman, Duval County: Whitaker, 1940.
- Hogan, Taylor County: Van Sieten, 1949.
- Holt Ranch, Palo Pinto County: Plummer, F. B., 1936.
- Hoskins Mound, Brazoria County. *See also* Salt domes. Gardner, F. J., 1948; Marx, 1936.
- Howard, Fisher County: Perini, 1950.
- Hugoton, Sherman and Hansford counties: Dahlgren, 1945; Morgan, L. C., 1947; Oil and Gas Jour., 1942i.
- Hull, Liberty County. *See also* Salt domes. Gardner, F. J., 1948; Ingalls, 1950d.
- Hull-Silk, Archer County: Oil and Gas Jour., 1939f; Sanford, 1941; Thompson, E. I., 1942.
- Humble, Harris County: Gardner, F. J., 1948; Van Orstrand, 1938.
- Humphrey-Gray, Jones County: Martin, B. H., 1950.
- Hungerford, Wharton County: Gardner, F. J., 1948.
- Hutchins-Kubela, Wharton County: Gardner, F. J., 1948.
- Ibex, Shackelford County: McCoy, 1934.
- Imogene, Atascosa County: McCallum, 1947.
- Ingram, Taylor County: Van Sieten, 1949.
- Irwin, Jones County: Kendall, W., 1949a.
- Ivy, Shackelford County: Wesselhoeft, 1949.
- Jackson Pasture, Chambers County: Gardner, F. J., 1948.
- Jameson, Coke County: Brown, H., 1949;

Oil and gas—Continued

Fields—Continued

- Conkling, 1948; Whitton, 1949.
- Jergins, Chambers County: Gardner, F. J., 1948.
- Jimbur, Runnels County: Tompkins, 1950.
- Joe's Lake, Tyler County: Gardner, F. J., 1948.
- Josey Ranch, Harris County: Gardner, F. J., 1948.
- Jourdanton, Atascosa County: Bush, 1950; McCallum, 1947.
- Joyce Richardson, Harris County: Gardner, F. J., 1948.
- Jud, Haskell County: Bassett, 1950.
- Katy, Fort Bend, Harris, and Waller counties: Allison, 1946; Gardner, F. J., 1948.
- Keeran, Victoria County: Mannen, 1933.
- Kelly-Snyder, Scurry County: Fagin, 1950a; Oil and Gas Jour., 1950g.
- Keystone, Winkler County: Deegan, 1946; Myrdal, 1947.
- Kirby, Liberty County: Gardner, F. J., 1948.
- Kittrell, Houston County: Clark, G. C., 1949a; Jenny, 1935.
- Kleiner Mississippiian, Eastland County: Russell, P. G., 1948.
- K.M.A., Archer, Wichita, and Wilbarger counties: Autry, 1940; Bredberg, 1937; Crowley, 1946; Dally, 1938; Merritt, 1938; Oil and Gas Jour., 1938; Rall, 1949; Stormont, 1938; Triplett, 1938.
- La Belle, Jefferson County: Gardner, F. J., 1948.
- La Blanca, Hidalgo County: Speed, 1937.
- La Gloria, Brooks and Jim Wells counties: Deegan, 1946a; Woolley, 1946.
- Lake Creek, Montgomery County: Gardner, F. J., 1948; Hill, H. B., 1948.
- Lakeview, Wharton County: Gardner, F. J., 1948.
- Lane City, Wharton County: Gardner, F. J., 1948.
- Larimore, Young County: Remke, 1949.
- La Rosa, Refugio County: Fisher, B., 1941; McDermott, 1940.
- Lawson-Chapman, Haskell County: Ammon, 1949.
- League City, Galveston County: Gardner, F. J., 1948; Oil and Gas Jour., 1939c.
- Lissie, Wharton County: Gardner, F. J., 1948.
- Liverpool, Brazoria County: Gardner, F. J., 1948.
- Livingston, Polk County: Eby, 1935; Gardner, F. J., 1948.
- Lochridge, Brazoria and Fort Bend counties: Gardner, F. J., 1948; Oil and Gas Jour., 1937h.
- Logansport, Shelby County: Shreveport Geol. Soc., 1946.
- Lomo Alto-Seven Sisters area, Duval and McMullen counties: West, 1946.
- Lone Camp, Palo Pinto County: Plummer, F. B., 1936.
- Long Lake, Anderson, Freestone, and Leon counties: Logan, J., 1934a; Stenzel, 1939a.
- Lopez, Duval and Webb counties: Best, 1941.
- Lost Lake, Chambers County: Gardner, F. J., 1948.
- Louise, Wharton County: Gardner, F. J., 1948.
- Lovell Lake, Jefferson County: Gardner, F.

Oil and gas—Continued

Fields—Continued

- J., 1948; Wendler, 1946.
- Lucas, Live Oak County: Mannen, 1933.
- Lucky (Whitson), Matagorda County: Gardner, F. J., 1948.
- Luling, Caldwell and Guadalupe counties: Anonymous, 1950; Barbour, G. B., 1942; Bush, 1950; Jones, R. A., 1933a; Oil and Gas Jour., 1942e; Plummer, F. B., 1944e.
- McCamey, Crane and Upton counties: Berger, 1934.
- McCampbell, Aransas and San Patricio counties: Tucker, R., 1939.
- McCoy, Liberty County: Gardner, F. J., 1948.
- McCrary, Fort Bend County: Gardner, F. J., 1948.
- McFaddin-O'Conner, Refugio and Victoria counties: Getzendaner, A. E., 1934; Mannen, 1933.
- McKnight, Crane County: Powers, 1940.
- Madisonville, Madison County: Gardner, F. J., 1948.
- Magnet-Withers, Wharton County: Gardner, F. J., 1948.
- Magnolia, Montgomery County: Gardner, F. J., 1948.
- Magnolia City, Jim Wells County: Hammond, 1939.
- Manvel, Brazoria County: Gardner, F. J., 1948; Swan, 1942.
- Markham, Matagorda County: Gardner, F. J., 1948; Swan, 1942.
- Martha, Liberty County: Gardner, F. J., 1948.
- Matzke, Wharton County: Gardner, F. J., 1948.
- Maubro, Jackson County: Williams, N., 1941a.
- Mauritz, Jackson County: Hornberger, 1943.
- Mayes, Chambers County: Gardner, F. J., 1948.
- Meadows, Midland County: Shepherd, 1950.
- Means, Andrews County: Denham, 1938; Green, 1933.
- Menefee, Wharton County: Gardner, F. J., 1948.
- Mercedes, Hidalgo County: Price, W. A., 1935a.
- Mercy, San Jacinto County: Gardner, F. J., 1948.
- Merigale-Paul, Wood County: Moore, H., 1949; Wright, A. C., 1945.
- Mexia, Limestone County: Clark, S. K., 1944; Hill, H. B., 1943a; McCoy, 1934; Rall, 1949.
- Midfields, Matagorda County: Gardner, F. J., 1948.
- Millican, Brazos County: Gardner, F. J., 1948.
- Millican, Coke County: Bonifield, 1950.
- Mineral Wells, Palo Pinto County: Plummer, F. B., 1936.
- Monte Negra, Kleberg County: Deegan, 1946a.
- Moore's (Orchard), Fort Bend County. *See also* Orchard dome under Salt domes. Gardner, F. J., 1948.
- Moren-Kisinger, Young County: Cheney, 1947.
- Moss Bluff, Chambers and Liberty counties. *See also* Salt domes. Gardner, F. J., 1948.

Oil and gas—Continued

Fields—Continued

- Mount Sylvan, Smith County: Wendlandt, 1936a.
 Muralla, Duval County: Schmotzer, 1939.
 Murphree, Taylor County: Van Sicken, 1949.
 Mykawa, Harris County: Eby, 1935; Gardner, F. J., 1948.
 Nacogdoches, Nacogdoches County: Mills, 1935c.
 Nada, Colorado County: Gardner, F. J., 1948.
 Nash, Brazoria and Fort Bend counties. *See also* Salt domes. Gardner, F. J., 1948.
 Navarro Crossing, Houston and Leon counties: Bell, K. G., 1940; Stenzel, 1939a; Wilson, E. B., 1938.
 Needville, Fort Bend County: Gardner, F. J., 1948.
 New Hope, Franklin County: Carpenter, 1949; Rall, 1949; Stehr, 1945.
 New Ulm, Austin County: Gardner, F. J., 1948.
 Nocona, Montague County: Billings, 1934.
 Nome, Jefferson County: Gardner, F. J., 1948.
 Noodle Creek, Jones County: Imholz, 1941a.
 North Cheek, Jefferson County: Gardner, F. J., 1948.
 North Cowden, Andrews and Ector counties: Giesey, 1941; Rahmes, 1950; Sanford, 1940a.
 North Dayton, Liberty County: Gardner, F. J., 1948.
 North Delhi, Harris County: Gardner, F. J., 1948.
 North Houston, Harris County: Gardner, F. J., 1948.
 North Monahans, Winkler County: Imbt, W. C., 1947.
 North Snyder, Scurry County: Clayton, N., 1950, 1950a; Fagin, 1950a; Miller, P. W., 1949.
 North Vidor, Orange County: Gardner, F. J., 1948.
 North Winters, Runnels County: Wesselhoeft, 1950.
 North Withers, Wharton County: Gardner, F. J., 1948.
 North Woodson, Throckmorton County: Conselman, 1949.
 Novice, Coleman County: Oil and Gas Jour., 1940b.
 Odem, San Patricio County: McCarver, 1947.
 O'Hern, Duval and Webb counties: Barnett, 1941.
 Old Ocean, Brazoria County: Gardner, F. J., 1948; McCaslin, 1948.
 Olive, Hardin County: Gardner, F. J., 1948.
 Opelika, Henderson County: Rall, 1949.
 Oplin, Callahan County: Adams, H. H., 1938.
 Orange, Orange County: Beckelhymer, 1939; Deussen, 1936b; Gardner, F. J., 1948.
 Orange Grove, Jim Wells County: Williams, N., 1940a.
 Orange Hill, Austin County: Gardner, F. J., 1948.
 Oyster Bayou, Chambers County: Gardner, F. J., 1948.
 Page, Schleicher County: Simpson, 1941.
 Palacios, Matagorda County: Gardner, F. J., 1948.
 Panhandle fields: Gould, 1936; McCoy, 1934; Oil and Gas Jour., 1942i; Panhandle Geol.

Oil and gas—Continued

Fields—Continued

- Soc., 1936a; Rogatz, 1935, 1939b.
 Pardue, Fisher County: Vickers, 1950.
 Payton, Pecos and Ward counties: Gile, 1942.
 Pearsall, Frio County: Bignell, 1936; Champion, 1936.
 Pegasus, Midland and Upton counties: Anonymous, 1950; Fagin, 1950; Hoot, 1950; Shepherd, 1950.
 Penn, Ector County: Carpenter, 1936.
 Petersburg, Hale County: Mallory, 1948.
 Pickett Ridge, Wharton County: Gardner, F. J., 1948; Houston Geol. Soc., 1941.
 Pickton, Hopkins County: Shelby, 1945.
 Pierce Junction, Harris County. *See also* Salt domes. Gardner, F. J., 1948; Houston Geol. Soc., 1941.
 Pinehurst, Montgomery County: Gardner, F. J., 1948.
 Pittsburg, Camp County: Vanderpool, H. C., 1940.
 Pitzer, Jones County: Maxwell, R. G., 1949.
 Placedo, Victoria County: Hedley, 1935; Owen, K. D., 1937; Singleton, 1936.
 Pledger, Brazoria County: Eby, 1935; Gardner, F. J., 1948.
 Plymouth, San Patricio County: Corning, 1936; Oil and Gas Jour., 1936b, 1937f; Tatum, J. L., 1942.
 Port Neches, Orange County: Gardner, F. J., 1948.
 Powell, Navarro County: Barton, D. C., 1937; Hill, H. B., 1943a; Oil and Gas Jour., 1942e; Van Orstrand, 1933.
 Prasifka, Wharton County: Gardner, F. J., 1948.
 Quilman, Wood County: Scott, E. R., 1948; Taliaferro, 1946.
 Raccoon Bend, Austin County. *See also* Salt domes. Gardner, F. J., 1948; Teas, 1933a.
 Ramers Island, Tyler County: Gardner, F. J., 1948.
 Ramsey, Colorado County: Gardner, F. J., 1948.
 Red Fish Reef, Chambers County: Gardner, F. J., 1948; Houston Geol. Soc., 1941a.
 Reddin, Jones and Taylor counties: Mead, 1949a.
 Refugio, Refugio County: Getzendaner, A. E., 1934; Green, 1938; Martyn, 1938.
 Reidenbach, Taylor County: Van Sicken, 1949.
 Richland, Navarro County: Clark, S. K., 1944; Hill, H. B., 1943a.
 Rincon, Starr County: Williams, N., 1940.
 Riney, Taylor County: Van Sicken, 1949.
 Roby, Fisher County: Barnes, A. E., 1950.
 Rock Crossing, Wilbarger County: Stilley, 1937.
 Rock Island, Colorado County: Gardner, F. J., 1948.
 Rockland, Jasper County: Gardner, F. J., 1948.
 Rodessa, Cass and Marion counties: Baker, W. L., 1935; Clark, C. C., 1939; Crider, 1936; Hill, H. B., 1943; Ivy, 1936; Mills, 1935a, 1935b, 1936, 1936a, 1936f; Oil and Gas Jour., 1936c.
 Rogers, Montague County: Clark, G. C., 1940.
 Ropes, Hockley County: Fagan, 1950b.
 Rose, Haskell County: Martin, B. H., 1949a.

Oil and gas—Continued
Fields—Continued

Rosenberg, Fort Bend County: Gardner, F. J., 1948.
 Ross Ranch, King County: Walker, 1950a.
 Rotan, Fisher County: Perini, 1950.
 Round Top, Fisher County: Brodie, 1949b; Day, 1950; Perini, 1950.
 Rowan, Brazoria County: Gardner, F. J., 1948; Houston Geol. Soc., 1941a.
 Royston, Fisher County: Brodie, 1949b; Perini, 1950.
 Sabine Pass, Jefferson County: Gardner, F. J., 1948.
 Sabine Tram, Newton County: Gardner, F. J., 1948.
 Salona, Montague County: Oil and Gas Jour., 1942c.
 Salt Creek, Kent County: Carlson, 1950b.
 Salt Flat, Caldwell County: Jones, R. A., 1933a.
 Sam Fordyce, Hidalgo and Starr counties: Earl, 1939; Post, 1934.
 Sam Houston, Walker County: Gardner, F. J., 1948.
 Sanders, Shackelford County: Kerfoot, 1949a.
 Sand Flat, Smith County: Bartell, 1944.
 Sand Hills, Crane County: Cordry, 1937; Powers, 1940.
 Sandy Point, Brazoria County: Gardner, F. J., 1948; Rosaire, 1938.
 San Jacinto, Harris County: Gardner, F. J., 1948.
 Saratoga, Hardin County: Gardner, F. J., 1948; Vittrup, 1947.
 Sarnosa, Duval County: Jones, R. A., 1934a.
 Satsuma, Harris County: Gardner, F. J., 1948; Harvey, C. J., 1939.
 Saxet, Nueces County: Clapp, 1935; Getzen-daner, A. E., 1934; Oil and Gas Jour., 1936, 1936b, 1937g; Poole, 1940.
 Schwab, Polk County: Gardner, F. J., 1948.
 Seabreeze, Chambers County: Gardner, F. J., 1948.
 Sealy, Austin County: Gardner, F. J., 1948.
 Seeligson, Kleberg and Jim Wells counties: Deegan, 1945, 1946a; Scrafford, 1947a.
 Sezno, Polk County: Gardner, F. J., 1948; Hanna, 1938a; Rosaire, 1938.
 Sejita, Duval County: Speed, 1940.
 Seminole, Gaines County: Oil and Gas Jour., 1940a.
 Sewell-Eddleman, Young County: Applin, P. L., 1942.
 Seymour, Baylor County: Murphy, 1941.
 Sharon Ridge, Scurry County: Fagin, 1950a; Oil and Gas Jour., 1939g.
 Shepherd, San Jacinto County: Gardner, F. J., 1948.
 Sheppards Mott, Matagorda County: Eby, 1935; Gardner, F. J., 1948.
 Sheridan, Colorado County: Gardner, F. J., 1948; Hill, H. B., 1949.
 Shipley, Ward County: Cordry, 1941.
 Silsbee, Hardin County: Gardner, F. J., 1948.
 Skillern, Tyler County: Gardner, F. J., 1948.
 Slaughter, Cochran, Hockley, and Terry counties: Leuenberger, 1940; Oil and Gas Jour., 1939a; Osborn, W. M., 1941; San-ford, 1940c; Wilson, G. M., 1941.
 Slick-Wileox, DeWitt and Goliad counties:

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Fields—Continued

Sebring, 1948.
 Smith-Ellis, Brown County: Lahee, 1934; McCoy, 1934.
 Smith Point, Chambers County: Gardner, F. J., 1948.
 Somerset, Bexar and Atascosa counties: Jones, R. A., 1936a.
 Sour Lake, Hardin County: Clapp, 1935; Gardner, F. J., 1948; Oil and Gas Jour., 1949a; Oil Weekly, 1946a; Sheets, 1947.
 South Bend, Young and Stephens counties: Adams, H. H., 1938.
 South Brad, Palo Pinto County: Plummer, F. B., 1936.
 South China, Jefferson County: Gardner, F. J., 1948.
 South Cotton Lake, Chambers County: Gardner, F. J., 1948; Wilson, J. M., 1941.
 South Esperson, Liberty County: Gardner, F. J., 1948.
 South Haldeman, Jim Wells County: Deegan, 1947b.
 South Haskell, Haskell County: Edwards, 1950.
 South Houston, Harris County: Eby, 1945; Gardner, F. J., 1948.
 South Hutchins, Wharton County: Gardner, F. J., 1948.
 South Hyatt, Tyler County: Gardner, F. J., 1948.
 South Liberty, Liberty County: Barton, D. C., 1934; Deussen, 1934; Gardner, F. J., 1948; Halbouty, M. T., 1950.
 South Mayes, Chambers County: Brace, 1947; Gardner, F. J., 1948.
 South Pickwick (Weldon), Palo Pinto County: Plummer, F. B., 1936.
 South Tyler, Smith County: Weirich, 1944.
 Spanish Camp, Wharton County: Gardner, F. J., 1948.
 Spindletop, Jefferson County: Barton, D. C., 1934, 1935a, 1937; Deussen, 1934; Eby, 1937; Gardner, F. J., 1948; Halbouty, M. T., 1938a; Lucas, 1945.
 Splendora, Montgomery County: Gardner, F. J., 1948.
 Spring, Harris County: Gardner, F. J., 1948.
 Spurger, Tyler County: Gardner, F. J., 1948.
 Stewart, Jackson County: Oil and Gas Jour., 1942f.
 Stowell-Winnie, Jefferson County: Gardner, F. J., 1948.
 Strake and Squire, Duval County: Huffman, 1949.
 Stratton, Nueces and Kleberg counties: Deegan, 1946a; Williams, N., 1941.
 Stratton Ridge, Brazoria County. *See also* Salt domes. Gardner, F. J., 1948.
 Strawn, Palo Pinto County: Plummer, F. B., 1936.
 Strawn Townsite, Palo Pinto County: Plummer, F. B., 1936.
 Sublime, Colorado County: Gardner, F. J., 1948.
 Sugarland, Fort Bend County. *See also* Salt domes. Deussen, 1934; Gardner, F. J., 1948; Halbouty, M. T., 1938a; Houston Geol. Soc., 1941; McCarter, 1933; Teas, 1933.
 Sugar Valley, Matagorda County. *See also*

Oil and gas—Continued
Fields—Continued

- Salt domes. Gardner, F. J., 1948.
Sulphur Bluff, Hopkins County: Bredberg, 1936; Herold, 1939; Oil and Gas Jour., 1937; Thompson, E. G., 1937.
Susan Peak, Tom Green County: Graham, D. W., 1950.
Sweetie Peck, Midland and Upton counties: Fagin, 1950.
Taft, San Patricio County: Oil and Gas Jour., 1936b, 1937f.
Talco, Franklin and Titus counties: Mills, 1936d; Oleott, 1936; Wendlandt, 1936, 1948.
Tanglewood, Lee County: Gardner, F. J., 1948.
Thompson, Fort Bend County: Gardner, F. J., 1948.
Three-Bar, Andrews County: Ellison, 1950a.
Tidehaven, Matagorda County: Gardner, F. J., 1948.
Tijerina-Canales-Blucher, Jim Wells and Kleberg counties: Deegan, 1946a.
Todd area, Crockett County: Christner, 1940; Gillin, 1946; Imbt, R. F., 1948, 1950.
Tomball, Harris County: Eby, 1935, 1936; Gardner, F. J., 1948; Rall, 1949; Williams, N., 1933c.
Tubb, Crane County: Powers, 1940.
Turtle Bay, Chambers County: Gardner, F. J., 1948.
Twin Basin, Wharton County: Gardner, F. J., 1948.
TXL, Ector County: Cantrell, 1947; David, 1946; Deegan, 1946; Oil and Gas Jour., 1946; Weber, 1946.
Van, Van Zandt County: Liddle, 1937; Morgan, A., 1940; Wrathner, 1933a.
Van Vleck, Matagorda County: Rosaire, 1938.
Vealmoor, Borden and Howard counties: Brodie, 1949c; Taylor, S. J., 1948.
Village Mills, Hardin County: Gardner, F. J., 1948.
Wade City, Jim Wells County: Williams, N., 1940a.
Waldeck, Fayette County: Gardner, F. J., 1948.
Walnut Bend, Cooke County: Hilseweck, 1941; Oil and Gas Jour., 1940; Rall, 1949.
Washburn, La Salle County: Esgen, 1942.
Wasson, Gaines and Yoakum counties: Donnelly, 1941; Oil and Gas Jour., 1938d; Schneider, 1943; Tucker, M., 1938b.
Webster, Harris County. *See also* Friendswood field. Gardner, F. J., 1948.
Weinert, Haskell County: Kerfoot, 1950.
Wellman, Terry County: Fagin, 1950b.
West Beaumont, Jefferson County: Gardner, F. J., 1948; Oil and Gas Jour., 1937c.
West Bernard, Wharton County: Gardner, F. J., 1948.
West Columbia, Brazoria County. *See also* Salt domes. Deussen, 1934; Gardner, F. J., 1948; Houston Geol. Soc., 1941a; Miller, J. C., 1942.
West Esperson, Harris County: Gardner, F. J., 1948.
West Ranch, Jackson County: Anonymous, 1950; Bauernschmidt, 1944.
West Saxet, Nueces County: Karly, 1939.

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Fields—Continued

- West Withers, Wharton County: Gardner, F. J., 1948.
Westbrook, Mitchell County: Carpenter, 1936; Sheldon, W., 1940.
Wheat, Loving County: Adams, J. E., 1936.
Wheeler, Ector and Winkler counties: Deegan, 1947c.
White Point, San Patricio County: Clapp, 1935; Getzendaner, A. E., 1934; Oil and Gas Jour., 1936a.
Wild, Stephens County: George, J. L., 1949.
Willamar, Willacy County: Ives, G. O., 1944.
Williams, Coleman County: Word, 1949.
Willow Slough, Chambers County: Gardner, F. J., 1948.
Wimberly, Jones and Taylor counties: Brodie, 1949.
Winnie, Chambers County: Gardner, F. J., 1948.
Winters, Runnels County: Tompkins, 1950.
World Powell, Crockett County: Berger, 1934.
Wortham, Freestone and Limestone counties: Clark, S. K., 1944; Hill, H. B., 1943a.
Wurtsbaugh, Tyler County: Gardner, F. J., 1948.
Yates, Pecos County: Adams, J. E., 1940; Bentz, 1934; Berger, 1934; Carpenter, 1936; McCoy, 1934; Mills, 1936c; Oil and Gas Jour., 1942; Sheldon, W., 1940.
Yoast, Bastrop County: Jenny, 1935.
Field waters: Barnes, V. E., 1946d; Berger, 1934, 1944; Case, L. C., 1942, 1942a; De Sitter, 1947; George, W. O., 1950; Horton, 1944; Jensen, 1944; Minor, 1934, 1941; Plummer, F. B., 1944e, 1945a; Rhea, 1940.
General areas. *See also* Fields, above.
Amarillo uplift: Paschal, 1941; Sellards, 1946c.
Anadarko basin: Gibbon, 1945; Gould, 1945, 1946; Tuttle, 1946.
Bend arch: Deegan, 1949c; Kendrick, 1935; Levorsen, 1943; Sellards, 1946c.
Central Texas: Kraemer, 1939; Plummer, F. B., 1944b; Wade, 1934.
Conroe trend, Gulf Coastal Plain: Casey, 1941a; Gross, 1933; Jenny, 1933; Lee, F. W., 1934; Oil and Gas Jour., 1937i; Smith, E. R., 1936, 1936a; Todd, 1938a; Williams, L. H., 1933; Williams, N., 1938b.
East Texas: Bignell, 1936a; Bredberg, 1934; Clark, S. K., 1944; Dalton, 1939; Decker, C. L., 1933; De Sitter, 1947; Donoghue, 1944; Easton, 1933; Fabiani, 1934; Geiser, 1944; Houston Geol. Soc., 1947; Illing, 1946; Ingram, R., 1942; Kornfeld, J. A., 1940; Kraemer, 1939; Levorsen, 1934; Ley, 1935a; Lindsley, 1933; Mills, 1936b; Minor, 1941; Oil and Gas Jour., 1938a, 1947; Oil Weekly, 1936; Rister, 1949; Ruiz, 1936; Stormont, 1938; Thomas, P., 1938; Trask, 1936; Triplett, 1938a; Wade, 1934.
East Texas basin: King, H. H., 1938; Sellards, 1946c; Trask, 1936.
Edwards Plateau: Levorsen, 1941b; Singleton, 1935; West Texas Geol. Soc., 1941a.
Fault zones: Barbour, G. B., 1942; Bryan, F., 1936; Cuyler, 1940a; Hill, H. B., 1943a; Illing, 1946a; Kornfeld, J. A., 1938; Mer-

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General areas—Continued

ritt, 1935; Miser, 1934a; Price, W. A., 1936; Rister, 1949; Sellards, 1946c; Smith, E. R., 1936b; Tomlinson, 1934; Wrather, 1933.

Fort Worth basin: Ingram, R., 1942a; Sanford, 1940b.

Gulf Coastal Plain: Baker, W. L., 1936; Barton, D. C., 1934, 1936a, 1937c, 1941; Bignell, 1936a; Brooks, 1949; Carsey, 1950; Casey, 1941a; Clark, R. P., 1937; Critz, 1946, 1946a; Dalton, 1939; Deegan, 1949b; Deussen, 1934, 1936a; Fabiani, 1934; Fowler, 1941; Gabriel, 1939; Gardner, F. J., 1948; Halbouty, M. T., 1936a, 1938a, 1947; Houston Geol. Soc., 1941, 1947; Howard, W. V., 1942a; Illing, 1946; Jenny, 1934, 1941; Jessen, 1944; Jones, R. A., 1933; Kornfeld, J. A., 1936, 1938; Kraemer, 1939; Krejci-Graf, 1933; Levorsen, 1943; Leyendecker, 1938, 1938a; Link, W. K., 1949; Logan, J., 1933, 1934b; Lowman, 1949; McCaslin, 1948; Malkin, 1941; Mills, 1936, 1936e; Minor, 1934; Oil and Gas Jour., 1939d, 1941a, 1941h, 1947a, 1948c, 1950c; Pennington, 1934; Poole, 1941; Post, 1936; Price, W. A., 1936; Russell, R. J., 1940; Smith, C. W., 1950; Snider, 1934; Warner, 1938, 1941; Vanderpool, H. C., 1933; Vetter, 1940; Wade, 1934; Warner, 1938, 1941; Weinzierl, 1936; Williams, N., 1937; Wilson, A. N., 1941; Woodruff, 1935; Wrather, 1934.

Gulf of Mexico, continental shelf: Anonymous, 1950; Carsey, 1950; Critz, 1947; Gammon, 1937; Jones, C. T., 1948; Lee, F. W., 1946; McGee, 1949, 1950; Pratt, 1946; Trask, 1949; Wrather, 1946.

High Plains (including Llano Estacado, Panhandle, South Plains, and Staked Plains): Cotner, 1933; Deegan, 1950d; Fowler, 1941; Hill, J., 1942; Kraemer, 1939; Levorsen, 1934, 1941b; McCoy, 1934; Oil and Gas Jour., 1938a; Rister, 1949; Rogatz, 1939, 1939b; Wade, 1934; West Texas Geol. Soc., 1941a.

North-central Texas: Barnes, V. E., 1946d; Bartram, 1950; Cheney, 1940; Sellards, 1946c.

Northeast Texas: Levorsen, 1933; Ley, 1935; Oil and Gas Jour., 1941f; Stewart, 1949.

North Texas: Kraemer, 1939; Oil and Gas Jour., 1938a, 1941c; Sellards, 1938d; Stormont, 1940; Tomlinson, 1934; Wade, 1934.

Palo Duro basin: Ingalls, 1950.

Permian basin: Bybee, 1938a; Deegan, 1950c; DeFord, 1937; Doherty, 1938; Johnston, D., 1947; Jones, T. S., 1944; King, H. H., 1947, 1948; Lang, W. B., 1943; Lehnhard, 1944; Logan, L. J., 1950; Oil and Gas Jour., 1941i, 1946a, 1950c; Osborne, 1944; Sellards, 1946c; Tomlinson, 1934; Tucker, M., 1938b; Watson, 1950.

Red River uplift: Paschal, 1941; Rister, 1949; Sellards, 1946c.

Rio Grande embayment: Clark, G. H., 1947; Cooper, H. H., 1935; Sellards, 1946c.

Sabine uplift, east Texas: Easton, 1936; Sellards, 1946c; Tomlinson, 1934.

Salt dome area, Gulf Coastal Plain: Barton,

Oil and gas—Continued

General areas—Continued

D. C., 1936a; Bediz, 1942; Carroll, 1943; Clark, R. P., 1937; Critz, 1947; Deussen, 1934; Hagen, 1941, 1946; Hanna, 1934; Illing, 1946a; Leyendecker, 1938a; Logan, J., 1933, 1934b; Mills, 1935; Oil and Gas Jour., 1942b; Plummer, F. B., 1933b; Ritz, 1936; Rosaire, 1936; Sawtelle, 1936; Sellards, 1946c; Snider, 1934; Teas, 1935; Weinzierl, 1936; Williams, N., 1935.

South Texas: Clayton, J. M., 1938, 1939; Cooper, H. H., 1937, 1938; Cuyler, 1940b; Dalton, 1939; Getzendaner, F. M., 1943; Lahee, 1934; McClain, 1947; Mannen, 1933; Owens, 1935; Pinkley, 1936; Poole, 1941; Post, 1936; San Antonio Geol. Soc., 1934; Tomlinson, 1934.

Southwest Texas: Jones, R. A., 1933a; Oil and Gas Jour., 1938a, 1941g, 1948c; Owens, 1935; Warner, 1935.

Sparta-Wilcox trend, Gulf Coastal Plain: Casey, 1941a; Ferguson, K. H., 1942; Jenny, 1942; Rinehart, 1942; Todd, 1938, 1939, 1939a, 1940, 1940a; Williams, N., 1939.

Texas, in general: Averitt, 1946; Barbour, G. B., 1942; Barton, D. C., 1937; Culbertson, 1946; Cunningham, 1946; Hendricks, L., 1945; Miser, 1946; Moulton, 1949; Oil and Gas Jour., 1938a, 1938c, 1939; Pierce, 1943; Rister, 1949; Seismograph Service Corp., 1944; Sellards, 1940b, 1944, 1946, 1946c; Snider, 1936; Warner, 1939.

Trinity River tributary area: Hendricks, T. A., 1948; Miller, R. L., 1948.

Tyler basin, east Texas: Levorsen, 1933, 1943; Sellards, 1946c.

West-central Texas: Adams, H. H., 1938, 1939; Brodie, 1949; Oil and Gas Jour., 1938a.

West Texas. *See also* Permian basin, above. Adams, H. H., 1943; Bartley, 1950, 1950a; Bartram, 1950; Bentz, 1934; Berger, 1934, 1944; Bulnes, 1945; Bybee, 1938a; Carlson, 1950, 1950a; Case, L. C., 1942; Cole, 1942c; Deegan, 1946, 1949c, 1949d, 1949e, 1949f, 1950, 1950a, 1950b, 1950c; DeFord, 1937; Denham, 1941; De Sitter, 1947; Doherty, 1938; Guthrie, 1944; Howard, W. V., 1933; Ingalls, 1950c; Johnston, D., 1947; Jones, T. S., 1944; Keplinger, 1950; King, H. H., 1948; King, P. B., 1938b, 1948; King, R. E., 1942; Kraemer, 1939; Kroenlein, 1935; Levorsen, 1934, 1941b, 1943; Martin, B. G., 1935; Oil and Gas Jour., 1938a, 1941d, 1941i, 1946a, 1948, 1948a; Osborne, 1944; Owen, E. W., 1941; Rettger, 1935; Rister, 1949; Sanford, 1940a; Sellards, 1946c; Snider, 1934; Stewart, 1949; Tomlinson, 1934; Tucker, M., 1938, 1938b; Wade, 1934; Waldschmidt, 1950; Watson, 1950; West Texas Geol. Soc., 1941a; Wheeler, R. R., 1947; World Oil, 1950; Wrather, 1934.

Helium. *See* Helium.

History: Critz, 1946; Fowler, 1941; Geiser, 1944; Gould, 1946a; Lucas, 1945; Rister, 1949; Triplett, 1938a; Warner, 1939, 1941.

Hydrogen sulfide gas. *See* Hydrogen sulfide gas.

Maps. *See also* specific fields, above.

East Texas: Minor, 1941; Oil Weekly, 1936.

Gulf Coast: Gardner, F. J., 1948; Jessen,

Oil and gas--Continued

Maps--Continued

1944; Kornfeld, J. A., 1936; Oil and Gas Jour., 1939d, 1941a, 1947a, 1948c, 1950c; Smith, C. W., 1950; Williams, N., 1937.

South Texas: Post, 1936.

Southwest Texas: Oil and Gas Jour., 1948c. Texas, in general: Averitt, 1946; Barton, D. C., 1937; Hendricks, L., 1945; Oil and Gas Jour., 1938c; Pierce, 1943; Rister, 1949; Sellards, 1946.

West Texas: World Oil, 1950.

Migration: Barton, D. C., 1935a; Cheney, 1940; Lahee, 1934; Plummer, F. B., 1942a, 1944c; Utterbach, 1936.

Natural gas: Cotner, 1933; Culberson, 1946; DeGolyer, 1946, 1946a; Dobbin, 1935; Donnelly, 1941; Kendrick, 1935; Ley, 1935, 1935a; Logan, J., 1934a; McGowen, 1950; Miller, R. L., 1948; Moulton, 1948; Oberfell, 1949; Olcott, 1946; Pennington, 1934; Rettger, 1935; Sellards, 1946c; Tarr, R. S., 1934; Teas, 1935; Warner, 1938; Williams, N., 1945.

Nitrogen. *See* Nitrogen.

Oil mines: Bignell, 1933; Mills, 1935c.

Oil shale: Plummer, F. B., 1940, 1944b; Sellards, 1946b.

Origin: Barton, D. C., 1937c; Brooks, 1949; Clark, F. R., 1934; Krejci-Graf, 1933; Link, T. A., 1950; Link, W. K., 1949; Snider, 1934; Trask, 1935, 1936, 1949; Utterbach, 1937.

Radioactivity measurements: Bell, K. G., 1940.

Reefs. *See* Reefs.

Reserves: Bignell, 1936a; Deegan, 1947, 1947a, 1950c; DeGolyer, 1946, 1946a, 1947; Deussen, 1936a; Corning, 1936; Levorsen, 1941c; Ley, 1935a; McGowen, 1950; Mills, 1935, 1936a, 1936b, 1936e; Miser, 1942; Moulton, 1948; Oberfell, 1949; Oil Weekly, 1947; Olcott, 1946; Owen, E. W., 1941; Pennington, 1934; Rogatz, 1939; Russell, R. J., 1940; Williams, N., 1945.

Reservoir rocks, nature of.

Dolomite: Atkinson, B., 1948; Imbt, W. C., 1947; Jones, T. S., 1944.

Elasticity: Donoghue, 1944.

Igneous: Blackburn, 1935; Sellards, 1938d; Smiser, 1935.

Limestone: Bulnes, 1945, 1946; Bybee, 1938a; Conley, J. N., 1949; Conselman, 1948; Howard, W. V., 1933; Imbt, W. C., 1947.

Porosity: Berger, 1934; Bulnes, 1945; Bush, 1950a; Caran, 1948; Howard, W. V., 1933; Imbt, W. C., 1947; Jones, T. S., 1944; Kerr, 1950; King, R. E., 1942; Lehnhard, 1944; Rall, 1949.

Reefs. *See* Reefs.

Sands: Halbouty, M. T., 1936a; Plummer, F. B., 1943a.

Stratigraphic position. *See also* specific strata of geologic systems.

Cenozoic: Clayton, J. M., 1938, 1939; Cooper, H. H., 1938; Dalton, 1939; Deussen, 1934; Halbouty, M. T., 1936a; Houston Geol. Soc., 1947; Howard, W. V., 1942a; McClain 1947; Merritt, 1935; Oil and Gas Jour., 1943; Poole, 1941; Seismograph Service Corp., 1944; Vanderpool, H. C., 1933; Wilson, A. N., 1941; Woodruff, 1935.

Mesozoic: Dalton, 1939; Ingram, R., 1942; Merritt, 1935; Oil and Gas Jour., 1943; Seismograph Service Corp., 1944.

Paleozoic: Adams, H. H., 1938, 1939; Bart-

Oil and gas--Continued

Stratigraphic position--Continued

ley, 1950a; Bartram, 1950; Bentz, 1934; Cole, 1942c; Cordry, 1941; Deegan, 1946, 1950d; Denham, 1941; Kroenlein, 1935; Oil and Gas Jour., 1943, 1946a, 1948; Osborne, 1944; Sanford, 1940a; Tucker, M., 1938.

Subsidence of fields. *See* Subsidence.

Traps. *See* Accumulation, above.

Well sample index: Feray, 1950.

Well spacing: Clark, S. K., 1944; Miller, J. C., 1942.

Well temperatures. *See* Geothermal data.

Oil Creek formation. *See* Ordovician strata.

Oil mines. *See* Oil and gas.

Oil shale. *See* Oil and gas.

Oldham County.

Geophysics: Taylor, G. L., 1948.

Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.

Igneous rock: Patton, 1945a, 1947; Taylor, G. L., 1948.

Well records. *See* Ground water and Igneous rocks, above.

Oligocene series. *See* Tertiary strata and rocks.

Olmos formation. *See* Cretaceous strata.

Olmos sand. *See* Tertiary strata and rocks.

Onalaska clay. *See* Tertiary strata and rocks.

Opal: Sellards, 1946b.

Opalized wood. *See* Silicified wood.

Ophiuroidea. *See* Paleontology, Stelleroidea.

Orange County.

Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.

Oil and gas. *See* Bland, North Vidor, Orange, and Port Neches fields under Oil and gas.

Salt domes. *See* Orange and Port Neches domes under Salt domes.

Stratigraphy: Reedy, 1949.

Well records. *See* Ground water, above.

Ordovician.

Axis, maximum deposition: Barton, J. M., 1945.

Correlation: Bridge, 1937, 1940a; Cloud, 1948b; Dott, 1941; Kirk, 1934; Schweers, 1949; Shimer, 1934; Vanderpool, E. W., 1950.

Distribution: Sellards, 1938c.

Field trip: Ardmore Geol. Soc., 1937.

Paleoecology: Cloud, 1946a, 1948a.

Paleogeography. *See* Paleogeography.

Paleogeology. *See* Paleogeology.

Paleontology. *See* Paleontology and also Strata, below.

Strata.

Alsate shale.

Paleontology: Cloud, 1948; Graves, 1941; King, P. B., 1938b; Sellards, 1933b.

Petrography: King, P. B., 1938b.

Stratigraphy: Cloud, 1948b; Eider, 1943; King, P. B., 1938b; Sellards, 1933b.

Bliss sandstone.

Correlation: Bridge, 1940a.

Paleontology: Cloud, 1948, 1948b.

Stratigraphy: King, P. B., 1940, 1945.

Connell sandstone: Schweers, 1949.

Ellenburger limestone.

Analyses: Adams, H. H., 1938; Atkinson, B., 1948; Barnes, V. E., 1943a; Goldich, 1947.

Building stone: Barnes, V. E., 1936b, 1947a; Cloud, 1948b.

Ordovician—Continued

Strata—Continued

Ellenburger limestone—Continued

Caverns in: Law, 1933; Stormont, 1949.

Correlation: Bridge, 1937, 1940a; Cloud, 1948b; Hendricks, L., 1941; Kirk, 1934.

Faults: Cloud, 1948b.

Field trip: Plummer, F. B., 1939.

Ground water: Cloud, 1948b; Plummer, F. B., 1946.

Insoluble residues: Cole, 1941, 1942; Goldieh, 1947; Hendricks, L., 1940.

Maps.

Structure: Levorsen, 1941a.

Thickness: Sellards, 1935c.

Oil and gas: Adams, H. H., 1933; Autry, 1940; Bartram, 1950; Cloud, 1948b; Cole, 1943; Cooper, H. H., 1938; Oil and Gas Jour., 1943; Powers, 1940; Sanford, 1941a; Tucker, M., 1938a; Weber, 1948.

Paleontology: Barnes, V. E., 1945; Bridge, 1947a; Cloud, 1946, 1946a, 1948, 1948a, 1948b; Sellards, 1933b.

Petrography: Cloud, 1948b; Crowley, 1945.

Physical and chemical properties: Goldieh, 1947.

Stratigraphy: Applin, P. L., 1942; Barnes, V. E., 1945; Cloud, 1946, 1948a, 1948b; Cole, 1940, 1942; Crowley, 1945, 1945a; Ellison, 1948; Hendricks, L., 1940a, 1941; Plummer, F. B., 1936; Powers, 1940; Sellards, 1933b.

Subdivision: Cloud, 1946, 1948b; Cole, 1942; Crowley, 1945a, 1946; Hendricks, L., 1940.

Subsurface occurrence, west Texas: Fritz, 1940.

Subsurface recognition, central Texas: Hendricks, L., 1949.

Topography: Cloud, 1948b.

Vegetation: Cloud, 1946, 1948b.

El Paso limestone.

Age: Wheeler, R. R., 1942.

Correlation: Bridge, 1940a; Kirk, 1934; Vanderpool, E. W., 1950.

Paleontology: Cloud, 1948; Kirk, 1934.

Stratigraphy: Cloud, 1948b; King, P. B., 1945; Kirk, 1934; Nelson, L. A., 1940; Sellards, 1933b; West Texas Geol. Soc., 1939.

Fort Peña formation.

Paleontology: Graves, 1941; King, P. B., 1938b; Sellards, 1933b.

Petrography: King, P. B., 1938b.

Stratigraphy: Cloud, 1948b; Eifler, 1943; King, P. B., 1938b; Sellards, 1933b.

General stratigraphy: Cole, 1942c; Dott, 1941; Warner, 1939; West Texas Geol. Soc., 1946a.

Gorman formation.

Caves: Cloud, 1948b.

Paleontology: Barnes, V. E., 1945; Cloud, 1946, 1946a, 1948, 1948a, 1948b.

Petrography: Cloud, 1948b.

Stratigraphy: Barnes, V. E., 1945; Cloud, 1946, 1948a, 1948b.

Topography: Cloud, 1948b.

Type section: Cloud, 1946, 1948b.

Vegetation: Cloud, 1948b.

Ordovician—Continued

Strata—Continued

Honeycut formation.

Paleontology: Barnes, V. E., 1945; Cloud, 1946, 1946a, 1948, 1948a, 1948b.

Petrography: Cloud, 1948b.

Stratigraphy: Barnes, V. E., 1945; Cloud, 1946, 1948a, 1948b.

Type section: Cloud, 1946, 1948b.

McKee sand, type section: Cole, 1942a.

Marathon limestone.

Paleontology: Cloud, 1948; Graves, 1941; King, P. B., 1938b; Sellards, 1933b; Turner, F. E., 1940.

Stratigraphy: Cloud, 1948b; Eifler, 1943; King, P. B., 1938b; Sellards, 1933b.

Maravillas chert.

Paleontology: Graves, 1941; King, P. B., 1938b.

Petrography: King, P. B., 1938b.

Stratigraphy: Eifler, 1943; King, P. B., 1938b; Sellards, 1933b.

Montoya limestone.

Stratigraphy: Cloud, 1948b; King, P. B., 1945; Nelson, L. A., 1940; Sellards, 1933b.

Monument Spring dolomite member.

Paleontology: Cloud, 1948b; Turner, F. E., 1939.

Stratigraphy: King, P. B., 1938b.

Oil Creek formation, oil and gas: Schweers, 1949.

Simpson group: Bartley, 1949.

Correlation: Schweers, 1949.

Nomenclature: Schweers, 1949.

Oil and gas: Powers, 1940; Schweers, 1949; Tucker, M., 1938a.

Paleontology: Harris, R. W., 1941.

Stratigraphy: Ellison, 1948; Fritz, 1940; Powers, 1940.

Subdivision: Cole, 1942a.

Staendebach member.

Paleontology: Barnes, V. E., 1945; Cloud, 1946, 1948a, 1948b.

Petrography: Cloud, 1948b.

Stratigraphy: Barnes, V. E., 1945; Cloud, 1946, 1948a, 1948b.

Type section: Cloud, 1946, 1948b.

Tanyard formation.

Paleontology: Cloud, 1946a, 1948, 1948a, 1948b.

Petrography: Cloud, 1948b.

Stratigraphy: Barnes, V. E., 1945; Cloud, 1946, 1948a, 1948b.

Type section: Cloud, 1946, 1948b.

Threadgill member: Cloud, 1946, 1948a, 1948b.

Paleontology: Barnes, V. E., 1945; Cloud, 1948a, 1948b.

Petrography: Cloud, 1948b.

Stratigraphy: Barnes, V. E., 1945; Cloud, 1948b.

Waddell sand, type section: Cole, 1942a.

Woods Hollow shale.

Correlation: Bridge, 1940a.

Paleontology: Graves, 1941; King, P. B., 1938b; Sellards, 1933b.

Petrography: King, P. B., 1938b.

Stratigraphy: Eifler, 1943; King, P. B., 1938b; Sellards, 1933b.

Unconformities: Arick, 1936.

- Underground position in Texas: Sellards, 1933b.
 Osage Plains, north-central Texas: Sellards, 1935c;
 Weissenborn, 1948a.
 Ostracoda. *See* Paleontology.
 Ostreidae. *See* Paleontology, Pelecypoda.
 Ouachita geosyncline. *See* Geosynclines.
 Ouachita orogeny: Keyes, 1939a.
 Ouachita structural belt, Ouachita facies: Barnes,
 V. E., 1948; Gardner, J. H., 1936; Getzendan-
 er, F. M., 1943; Lee, W., 1938b; Miser, 1934a; Russell,
 W. L., 1938; Sellards, 1935c.
 Overall limestone. *See* Permian strata.
- Packsaddle schist. *See* Precambrian rocks.
 Palafox sandstone. *See* Tertiary strata and rocks.
 Paleobotany. *See also* specific counties; strata of
 geologic systems.
 Algae: Cloud, 1942, 1945; Elias, 1943, 1947; El-
 lison, 1950a; Johnson, J. H., 1942, 1942a, 1944,
 1946, 1949, 1950; Peck, 1938.
 Cretaceous: Adkins, 1933a; Ball, 1936, 1937, 1939;
 Barton, H. M., 1948; Chelf, 1946; Dorf, 1939;
 Johnson, J. H., 1944; Jones, D. J., 1947; Peck,
 1938.
 Cycads: Chelf, 1946.
 Devonian: Ellison, 1950, 1950a.
 Ferns: Adams, J. E., 1933; Atkinson, W. E.,
 1937.
 Fossil plants in coal balls: Reed, F. D., 1941.
 Leaves: Ball, 1936, 1937, 1939.
 Permian: Adams, J. E., 1933; Clifton, 1944;
 Darrah, 1938; Elias, 1943, 1947; Johnson, J.
 H., 1942, 1942a, 1946, 1949, 1950; King, P. B.,
 1934; Read, 1940; White, C. D., 1936; Wilson,
 J. A., 1948b.
 Pollen profiles: Potzger, 1943, 1947.
 Silicified wood. *See* Silicified wood.
 Spores: Ellison, 1950; Jones, D. J., 1947.
 Stromatolites: Cloud, 1942, 1945.
 Tertiary: Atkinson, W. E., 1937; Ball, 1939;
 Barton, H. M., 1948; Berry, E. W., 1941;
 Eifler, 1950; Kirn, 1934, 1936; Parks, 1934,
 1936, 1936a; Plummer, F. B., 1933b; Renick,
 1936.
- Paleocene series. *See* Tertiary strata and rocks.
 Paleoclimate: Ham, 1943.
 Cretaceous: Albritton, 1950; Brown, L. S., 1934;
 Stephenson, L. W., 1933; Willis, 1948.
 Jurassic: Willis, 1948.
 Permian: Adams, H. H., 1943; Willis, 1948.
 Quaternary: Anteys, 1949; Bryan, K., 1942,
 1942a, 1943; Evans, G. L., 1950; Kelley, 1940;
 Price, W. A., 1935, 1945.
 Tertiary: Plummer, F. B., 1933b.
- Paleogeography: Adams, J. E., 1943; Sellards, 1938.
 Cambrian: Sellards, 1933b.
 Cretaceous: Barton, D. C., 1937; Heaton, 1933;
 Kellum, 1936, 1944; King, P. B., 1933b; Lee,
 F. W., 1946; Scott, G., 1940a.
 Devonian: Ellison, 1950; Sellards, 1933b.
 Jurassic: Getzendan-
 er, F. M., 1943; Heaton,
 1933; Imlay, 1943; Kellum, 1944; Storm, 1941.
 Mississippian: Sellards, 1933b.
 Ordovician: Lee, F. W., 1946; Sellards, 1933b.
 Pennsylvanian: Barton, D. C., 1937; Harlton,
 1934; Heaton, 1933; Hills, 1942; Sellards,
 1933b, 1935c.
 Permian: Clifton, 1944; Heaton, 1933; Hills,
 1942, 1948; Kellum, 1944; King, P. B., 1938,
 1942, 1948; Patton, 1933; Roesli, 1950; Roth,
- Paleogeography—Continued
 Permian—Continued
 1942a; Schuchert, 1935; Sellards, 1933b.
 Quaternary: Lee, F. W., 1946.
 Silurian: Lee, F. W., 1946; Sellards, 1933b.
 Tertiary: Barton, D. C., 1937; Lee, F. W., 1946.
 Triassic: Heaton, 1933; Kellum, 1944.
- Paleogeology: Roth, 1950; Schuchert, 1935a.
 Cambrian: Roth, 1949a.
 Cretaceous: Peterson, H. A., 1943; Roth, 1949a.
 Devonian: Eardley, 1949; Roth, 1949a.
 Jurassic: Eardley, 1949; Roth, 1949a.
 Mississippian: Roth, 1949a.
 Ordovician: Roth, 1949a.
 Pennsylvanian: Eardley, 1949; Roth, 1949a.
 Permian: Eardley, 1949; Roth, 1949a.
 Pre-Cretaceous: Levorsen, 1933.
 Pre-Mississippian: Levorsen, 1933.
 Pre-Pennsylvanian: Levorsen, 1933.
 Silurian: Roth, 1949a.
 Triassic: Eardley, 1949; Roth, 1949a.
- Paleontology. *See also* general areas; Paleobotany;
 specific counties; strata of geologic systems.
 Ammonoidea (ammonoids). *See also* Cephalo-
 poda.
 Carboniferous: Miller, A. K., 1940b; Plum-
 mer, F. B., 1937, 1937a, 1937b.
 Cretaceous: Adkins, 1933, 1944; Albritton,
 1937c; Moreman, 1942; Scott, G., 1940a;
 Stoyanow, 1936.
 Jurassic: Albritton, 1937c; Imlay, 1941.
 Mississippian: Cloud, 1948b; Miller, A. K.,
 1940b, 1950a; Plummer, F. B., 1937a,
 1937c.
 Paleozoic: Miller, A. K., 1943; Plummer, F.
 B., 1937c.
 Pennsylvanian: Elias, 1938; Miller, A. K.,
 1940b, 1945b, 1950; Moore, R. C., 1940;
 Plummer, F. B., 1937a, 1937c, 1938c; Scott,
 G., 1944, 1945; Sellards, 1933b.
 Permian: Clifton, 1942, 1944, 1944a, 1945;
 King, P. B., 1947, 1948; Miller, A. K.,
 1938, 1940, 1940a, 1945, 1945b; Plummer,
 F. B., 1937, 1937a, 1937b, 1937c; Roth,
 1942a; Sellards, 1933b; Stoyanow, 1949;
 Westoll, 1941.
- Amphibia (amphibians).
 Pennsylvanian: Romer, 1935.
 Permian: Case, E. C., 1935; Lundelius, 1949;
 Olson, 1939, 1941; Romer, 1935, 1941, 1942,
 1943, 1950; Sawin, 1941.
 Tertiary: Taylor, E. H., 1943.
 Triassic: Colbert, 1950; Evans, G. L., 1941a;
 Sawin, 1941a, 1944, 1945; Sellards, 1940f;
 Sternberg, 1941; Wilson, J. A., 1941, 1948.
- Anthozoa (corals).
 Cretaceous: Wells, 1933, 1944, 1946, 1947.
 Jurassic: Wells, 1946.
 Pennsylvanian: Jeffords, 1947; Moore, R. C.,
 1945; Plummer, F. B., 1945; Wells, 1944a.
 Permian: Cooper, G. A., 1946a; Heritsch,
 1936, 1936a; Moore, R. C., 1941, 1946a;
 Okulitch, 1937.
 Tertiary: Monsour, 1944; Vaughan, 1935;
 Wells, 1946b.
- Arthropoda (arthropods). *See also* Cirripedia;
 Decapoda; Ostracoda; Phyllopoda; Trilobita.
 Ordovician: Turner, F. E., 1939.
- Artiodactyla (even-toed ungulates, including
 ruminants).
 Quaternary: Barbour, E. H., 1941; Figgins,
 1933; Hesse, 1942; Meade, 1942; Sellards,
 1917.

Paleontology—Continued

Artiodactyla—Continued

Tertiary: Stenzel, 1944d; Stirtan, 1936a.

Asterioidea (starfish). *See* Stelleroidea.

Aves (birds).

Quaternary: Ayer, 1936; Compton, 1934.

Tertiary: Compton, 1934; Miller, L. H., 1937; Stenzel, 1944d.

Barnacles. *See* Cirripedia.

Bibliographies: Branson, C. C., 1948; Camp, 1949.

Birds. *See* Aves.

Bison. *See* Artiodactyla.

Bivalves. *See* Pelecypoda.

Brachiopoda (brachiopods or lamp shells): Eley, 1933.

Cambrian: Bridge, 1937a.

Carboniferous: Bridge, 1937a; Girty, 1938.

Ordovician: Cloud, 1948.

Pennsylvanian: Girty, 1938; King, R. H., 1938, 1939; Weller, 1933.

Permian: Clifton, 1942; Cooper, G. A., 1942, 1946a; Girty, 1934; Huang, 1936; King, R. H., 1938; Newell, 1940; Westoll, 1941.

Tertiary: Gardner, J. A., 1935; Scott, G., 1934; Stenzel, 1940a, 1943c.

Brittle stars. *See* Stelleroidea.

Bryozoa (bryozoans or moss animals).

Permian: Condra, 1944; Cooper, G. A., 1946a; Elias, 1946; Newell, 1940.

Tertiary: Gardner, J. A., 1935; Scott, G., 1934.

Cambrian. *See also* various categories of animals. Bridge, 1937, 1947; Cloud, 1946, 1948b; King, P. B., 1938b; Sellards, 1933b.

Canidae (including dogs). *See* Carnivora.

Carnivora (flesh-eating mammals including Canidae, Hyainidae, Mustelidae).

Quaternary: Gazin, 1937; Sellards, 1940; Stirtan, 1933.

Tertiary: Johnson, C. S., 1938a, 1939, 1939a, 1941; Stirtan, 1939a, 1940; VanderHoof, 1936, 1937.

Cephalopoda (cephalopods). *See also* Ammonoidea; Mollusca; Nautiloidea.

Cretaceous: Renz, 1936; Scott, G., 1938, 1940b.

Mississippian: Miller, A. K., 1948.

Paleozoic: Croneis, 1941.

Pennsylvanian: Flower, 1939; Williams, J. S., 1936.

Permian: Clifton, 1945, 1946; Cooper, G. A., 1946a; Miller, A. K., 1947a.

Tertiary: Palmer, 1937.

Cetacea (whales).

Tertiary: Kellogg, 1936.

Chelonina (turtles).

Tertiary: Johnston, C. S., 1937c; Stenzel, 1944d.

Cirripedia (barnacles).

Cretaceous: Withers, 1946.

Coelenterata (including jellyfish). *See also* Anthozoa; Graptolithina.

Cretaceous: Caster, 1945; Kirkland, 1941.

Quaternary: Deevey, 1950.

Conodonts (tooth-like structures).

Devonian: Ellison, 1950, 1950a; Hass, 1947. Mississippian: Cloud, 1948b; Hass, 1941, 1947.

Ordovician: Graves, 1941.

Paleozoic: Ellison, 1946.

Pennsylvanian: Cooper, C. L., 1947; Ellison, 1941, 1941a.

Paleontology—Continued

Corals. *See* Anthozoa.

Cotylosauria (cotylosaurs or "stem reptiles").

Permian: Olson, 1937; Price, L. I., 1937;

Romer, 1944, 1946, 1950; White, T. E., 1939.

Crabs. *See* Decapoda.

Cretaceous. *See also* various categories of animals. Adkins, 1933a, 1949; Albritton, 1937d, 1938; Bailey, T. L., 1945; Bergquist, 1949; Calahan, 1939; Curry, 1934; Dallas Petroleum Geologists, 1941; Damon, 1940a; Eifler, 1943, 1950; Frizzell, 1950a; Goldich, 1949; Grubbs, 1936; Ikins, 1949; Keyes, 1936d; King, P. B., 1938b; Livingston, 1944; McNulty, 1941a; Roemer, 1935; Ross, 1935b; Sandidge, 1946; Scott, G., 1940c; South Texas Geol. Soc., 1937a; Stephenson, L. W., 1938a, 1941, 1941a, 1944; Thompson, S. A., 1935; Whitney, 1934.

Crinoida (crinoids or stone lilies).

Cretaceous: Peck, 1941, 1943; Stephenson, L. W., 1941a.

Jurassic: Imlay, 1941.

Mississippian: Moore, R. C., 1940c, 1942.

Pennsylvanian: Bramlette, 1943; Moore, R. C., 1937, 1938, 1940a, 1940b; Strimple, 1948.

Permian: Bramlette, 1943; Clifton, 1942; Cooper, G. A., 1946a; Moore, R. C., 1938, 1939, 1940b.

Tertiary: Howe, 1942.

Crocodyles. *See* Crocodilia.

Crocodylia (crocodiles): Brown, B., 1942.

Tertiary: Stenzel, 1944d.

Triassic: Colbert, 1950.

Crustacea (crustaceans). *See* Arthropoda; Cirripedia; Decapoda; Ostracoda; Phyllopoda; Trilobita.

Decapoda (decapod crustaceans including crabs, lobsters, shrimp).

Cretaceous: Rathbun, 1935; Sellards, 1940f; Stenzel, 1944, 1944c, 1945b.

Quaternary: Rathbun, 1935.

Tertiary: Rathbun, 1935; Stenzel, 1934, 1935, 1943d, 1944b.

Decapod crustaceans. *See* Decapoda.

Devonian. *See also* various categories of animals. Barnes, V. E., 1946c, 1947; Ellison, 1950.

Dinosaurs. *See* Tracks, trails, burrows, borings, below.

Dogs. *See* Carnivora.

Echinoidea (echinoids or sea urchins): Eley, 1933.

Cretaceous: Cooke, 1946; Ikins, 1940, 1940a; Smiser, 1933, 1936; Stephenson, L. W., 1941a.

Pennsylvanian: Geis, 1936.

Tertiary: Gardner, J. A., 1935; Scott, G., 1934.

Edentata (edentates including sloths).

Quaternary: Evans, G. L., 1941a; Hussey, 1943; Johnston, C. S., 1937b; McNulty, 1940a, 1941.

Elasmosaurs. *See* Sauropterygia.

Elephants. *See* Proboscidea.

Even-toed ungulates. *See* Artiodactyla.

Equidae (horses). *See* Perissodactyla.

Fishes. *See* Pisces.

Flesh-eating mammals. *See* Carnivora.

Flying reptiles. *See* Pterosauria.

Foraminifera. *See also* Fusulinidae.

Cretaceous: Albritton, 1937, 1937b; Ander-

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Foraminifera—Continued

- son, I. J., 1948; Applin, E. R., 1944, 1950; Barker, 1944; Constant, 1939; Cushman, 1933, 1936, 1936a, 1936c, 1940, 1940a, 1940b, 1940d, 1941, 1943a, 1944, 1946, 1946a, 1946b; Davies, L. M., 1939; Ellis, 1934; Frizzell, 1950, 1950a; Grice, 1948; Grimsdale, 1947; Ikons, 1940a; Keijzer, 1942; Loeblich, A. R., 1941, 1946, 1946a, 1949, 1950; Lozo, 1941, 1942, 1943, 1943a, 1944, 1944a; Lynch, 1933; Milton, 1936; Moreman, 1942; Plummer, H. J., 1936, 1936a, 1949; Quesenberry, 1936; South Texas Geol. Soc., 1937a; Tappan, 1940, 1941, 1942, 1943; Thalmann, 1942; Vieaux, 1941, 1943; Wicher, 1949.
- Jurassic: Albritton, 1937.
- Pennsylvanian: Cooper, C. L., 1947; Plummer, H. J., 1945, 1948.
- Permian: Cushman, 1942; Johnson, J. H., 1950.
- Quaternary: Cushman, 1946; Lowman, 1944; Phleger, 1948, 1950; Trask, 1947.
- Tertiary: Applin, E. R., 1934, 1944; Cushman, 1933a, 1935, 1936b, 1936c, 1940c, 1943, 1944a, 1945, 1946; Davis, F. E., 1941; Deussen, 1939; Ellis, 1933, 1944; Feray, 1941, 1948; Frizzell, 1947; Garrett, J. B., 1937, 1938, 1939, 1942, 1942a, 1950; Gravell, 1935, 1936, 1937; Harris, R. W., 1936a, 1937; Israelsky, 1935; Kornfeld, M. M., 1940; McLean, 1950; Mills, 1936g; Nuttall, 1936; Plummer, F. B., 1933b; Plummer, H. J., 1934, 1936a; Quesenberry, 1936; Reedy, 1949; Scott, G., 1934; Stuckey, 1946.
- Fusulinidae (fusulinids): Bradfield, 1938; Ham, 1943.
- Pennsylvanian: Dunbar, 1940; Henbest, 1937, 1938; James, 1939; Kapner, 1950; Mohr, 1939; Moore, R. C., 1940; Sellards, 1933b; Spivey, 1946; Thompson, M. L., 1935, 1942, 1945, 1947, 1948.
- Permian: Clifton, 1945; Dunbar, 1936, 1936a, 1937, 1940; Henderson, G. G., 1950; James, 1939; King, P. B., 1947, 1948; King, R. E., 1942; Lewis, F. E., 1941; Mohr, 1939; Moore, R. C., 1940; Roth, 1942a, 1943; Sellards, 1933b; Thompson, M. L., 1935a; West Texas Geol. Soc., 1949c.
- Gastropoda (gastropods). *See also* Mollusca.
- Cambrian: Knight, 1947.
- Cretaceous: Ikons, 1940a; Stainbrook, 1940; Stanton, 1947; Stephenson, L. W., 1941a.
- Jurassic: Imlay, 1941.
- Ordovician: Bridge, 1937a, 1947a.
- Pennsylvanian: Girty, 1939; King, R. H., 1940; Nelson, L. A., 1937, 1947.
- Permian: Clifton, 1942; Cooper, G. A., 1946a; Girty, 1937; Hills, 1940; Newell, 1940.
- Tertiary: Fletcher, 1933; Gardner, J. A., 1935, 1939a; Harris, Gilbert D., 1937; Palmer, 1937, 1944; Plummer, F. B., 1933b; Scott, G., 1934; Stenzel, 1933, 1939, 1940c, 1940d, 1943a, 1943b, 1944a.
- Graptolithina (graptolites).
- Cambrian: Decker, C. E., 1944a, 1945.
- Ordovician: Decker, C. E., 1941, 1942a, 1944; Sellards, 1933b.
- Paleozoic: Decker, C. E., 1936, 1942a; Rue-

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- demann, R., 1947.
- Silurian: Decker, C. E., 1942.
- Graptolites. *See* Graptolithina.
- Holothuroidea (holothurians or sea cucumbers).
- Tertiary: Howe, 1942.
- Horses. *See* Perissodactyla.
- Hyaenas. *See* Carnivora.
- Hyaenidae (hyaenas). *See* Carnivora.
- Hydroids. *See* Coelenterata.
- Jellyfish. *See* Coelenterata.
- Jurassic. *See also* various categories of animals.
- Adkins, 1933a; Albritton, 1937a, 1937d, 1938; Imlay, 1943, 1945a; Sandidge, 1946.
- Lamp shells. *See* Brachiopoda.
- Lobsters. *See* Decapoda.
- Mammalia (mammals). *See also* Artiodactyla; Carnivora; Cetacea; Edentata; Perissodactyla; Primates; Proboscidea; Rodentia; Sirenia.
- Quaternary: Ayer, 1936; Evans, G. L., 1950; Peterson, R. L., 1946; Sellards, 1941.
- Tertiary: Hesse, 1940a; Johnston, C. S., 1937; Stirton, 1936; Stovall, J. W., 1948.
- Mammal-like reptiles. *See* Pelycosauria.
- Mammoths. *See* Proboscidea.
- Man. *See* Anthropology.
- Marine reptiles. *See* Sauropterygia.
- Mastodons. *See* Proboscidea.
- Microfossils. *See also* Conodonts; Foraminifera; Fusulinidae; Holothuroidea; Stellerioidea.
- Barton, H. M., 1948; Constant, 1939; Cooper, C. L., 1947; Ellison, 1950a; Gardner, F. J., 1948; Harris, R. W., 1936a, 1937; Howe, 1942; Thomas, N. L., 1935a.
- Mississippian. *See also* various categories of animals.
- Cloud, 1948b; Graham, J. J., 1949; King, P. B., 1934b, 1945; Plummer, F. B., 1936, 1950.
- Mollusca (mollusks). *See also* Ammonoidea; Cephalopoda; Gastropoda; Nautiloidea; Pelecypoda; Scaphopoda.
- Eley, 1938; Price, W. A., 1942.
- Permian: Newell, 1938.
- Quaternary: Clark, W. T., 1939; King, P. B., 1943; Richards, H. G., 1939.
- Tertiary: Gardner, J. A., 1941, 1945; Harris, Gilbert D., 1946; Stenzel, 1940f, 1948a.
- Mollusks. *See* Mollusca.
- Moss animals. *See* Bryozoa.
- Mustelidae. *See* Carnivora.
- Nautiloidea (nautiloids). *See also* Cephalopoda.
- Mississippian: Miller, A. K., 1948.
- Permian: Clifton, 1942, 1944; Miller, A. K., 1945a, 1947, 1949.
- Tertiary: Miller, A. K., 1947b; Scott, G., 1934; Stenzel, 1935a, 1940b, 1943, 1948.
- Ophiuroidea (brittle stars). *See* Stellerioidea.
- Ordovician. *See also* various categories of animals.
- Barnes, V. E., 1945; Bridge, 1937, 1940; Cloud, 1946, 1946a, 1948a, 1948b; King, P. B., 1938b; Kirk, 1934; Sellards, 1933b.
- Ostracoda (ostracodes).
- Cretaceous: Alexander, C. I., 1933, 1933a, 1934, 1935a, 1936; Awbrey, 1942; Constant, 1939; Garrison, 1943; Lozo, 1943, 1943a, 1944a; Moreman, 1942; Quesenberry, 1936; Roth, 1933a; Tappan, 1943; Weingeist, 1949.
- Jurassic: Swain, 1945.
- Mississippian: Sohn, 1950a.
- Ordovician: Harris, R. W., 1941.

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Ostracoda—Continued

- Paleozoic: Wright, L. M., 1948.
 Pennsylvanian: Cooper, C. L., 1943, 1945, 1947; Coryell, H. N., 1933, 1933a.
 Permian: Hamilton, 1942; Kellett, 1943; Sohn, 1950.
 Tertiary: Alexander, C. I., 1934a; Harris, R. W., 1936a, 1937; Howe, 1934; Martin, J. L., 1939; Murray, G. E., 1938, 1942; Quesenberry, 1936; Scott, G., 1934; Stephenson, M. B., 1942, 1942a, 1944, 1944a, 1945, 1945a, 1946, 1946a; Sutton, 1939, 1940; Weingeist, 1949.

Ostreidae. *See* Pelecypoda.Pectinidae. *See* Pelecypoda.Pelecypoda (pelecypods or bivalves). *See also* Mollusca. Stenzel, 1945a.

- Cretaceous: Adkins, 1944a; Moreman, 1942; Stanton, 1947; Stephenson, L. W., 1933, 1934, 1936, 1937b, 1938, 1941a, 1945, 1946, 1947; Stoyanow, 1936.

Jurassic: Imlay, 1940, 1941.

Pennsylvanian: Harris, Geo. D., 1934; Newell, 1938a.

Permian: Clifton, 1942, 1944; Cooper, G. A., 1946a; Newell, 1938a, 1939, 1940, 1942, 1947; Roth, 1941.

Quaternary: Tucker-Rowland, 1938.

Tertiary: Gardner, J. A., 1935, 1939, 1940; Harris, R. W., 1936; Howe, 1937; MacNeil, 1935, 1938; Plummer, F. B., 1933b; Rowland, 1936; Scott, G., 1934; Stenzel, 1944a, 1945, 1945a, 1949; Tucker-Rowland, 1938.

Pelycosauria (pelycosaurs or mammal-like reptiles): Gilmore, C. W., 1943.

Pennsylvanian: Romer, 1937a.

Permian: Romer, 1937a, 1950; Shuler, 1942; Sternberg, 1942; Wilson, J. A., 1943b.

Pennsylvanian. *See also* various categories of animals. Abilene Geol. Soc., 1949; Bridge, 1940; Bullard, 1936; Cooper, G. A., 1941; Harlton, 1933; King, P. B., 1938b, 1945; Needham, 1940; Nelson, L. A., 1940; Plummer, F. B., 1936, 1947, 1947a, 1950; Williams, J. S., 1938.

Perissodactyla (perissodactyls including Equidae, Rhinocerotidae).

Quaternary: Evans, G. L., 1941a.

Tertiary: Gregory, J. T., 1940; Johnston, C. S., 1937a, 1937d, 1937e, 1938; Stenzel, 1944d; Stirton, 1939; Wood, H. E., 1937.

Permian. *See also* various categories of animals.

- Albritton, 1937d; Branson, 1948; Bridge, 1940; Bullard, 1936; Clifton, 1944; Cooper, G. A., 1941, 1946, 1950; Donagan, 1950; Dunbar, 1941; Geiser, 1946; Keyes, 1938a; King, P. B., 1934, 1938b, 1942, 1945, 1948; King, R. E., 1942; Moore, R. C., 1949; Read, W. F., 1940, 1940a, 1943; Sellards, 1940f; Stainbrook, 1941; Williams, J. S., 1938.

Phyllopoda (phyllopods).

Jurassic: Imlay, 1941.

Phytosaurs. *See* Thecodontia.

Pisces (fishes): Wilson, J. A., 1948a.

Carboniferous: Case, E. C., 1935a.

Cretaceous: Chelf, 1940; Dunkle, 1948; Hesse, 1940b; Sellards, 1940f.

Devonian: Ellison, 1950a.

Pennsylvanian: Hesse, 1940b; Romer, 1935.

Permian: Case, E. C., 1935a; Dunkle, 1939, 1946; Hesse, 1940b; Romer, 1934, 1935, 1937, 1950; Westoll, 1939; Wilson, J. A.,

Paleontology—Continued

Pisces—Continued

1948b, 1949, 1950a.

Tertiary: Baughman, 1943; Hesse, 1940b; Leriche, 1942; Stenzel, 1944d.

Triassic: Colbert, 1950; Hesse, 1940b.

Plesiosaurs. *See* Sauropterygia.

Porifera (sponges).

Cambrian: Wilson, J. L., 1950.

Cretaceous: Stephenson, L. W., 1941a; Wells, 1934.

Pennsylvanian: King, R. H., 1938a.

Prairie dog. *See* Rodentia.Primates (early man). *See* Anthropology.

Proboscidea (proboscideans including elephants and mastodons): Anonymous, 1935; Ray, 1942a.

Quaternary: Bryan, K., 1938; Evans, G. L., 1941a, 1941b; Osborn, H. F., 1936; Shuler, 1934; Sellards, 1938a.

Tertiary: Anonymous, 1940; Gregory, J. T., 1941, 1945a; Murray, L. T., 1940; Osborn, H. F., 1936; Sellards, 1940e.

Protosauria (protosaurus): Evans, G. L., 1941a.

Permian: Romer, 1947, 1950.

Triassic: Colbert, 1950; Gregory, J. T., 1941a, 1943, 1945; Sellards, 1940f.

Pterosauria (pterosaurs or flying reptiles).

Cretaceous: Gilmore, C. W., 1935.

Permian: Mathews, A. A. L., 1936.

Quaternary. *See also* various categories of animals. Albritton, 1939; Brucks, 1935; Evans, G. L., 1949; Gunter, 1947; Sellards, 1940d; Whitney, 1934.

Radiolaria.

Devonian: Aberdeen, 1940; Henbest, 1936.

Reptiles. *See* Reptilia.Reptilia (reptiles). *See also* Chelonina; Cotylosauria; Crocodilia; Dinosaurs; Pelycosauria; Protosauria; Pterosauria; Sauropterygia; Squamata; Thecodontia. Evans, G. L., 1941a; Wilson, J. A., 1950.

Cretaceous: Sellards, 1940f.

Pennsylvanian: Romer, 1935.

Permian: Romer, 1935, 1939.

Quaternary: Ayer, 1936.

Tertiary: Stovall, J. W., 1948.

Triassic: Colbert, 1950; Sellards, 1940f.

Rhinoceroses. *See* Perissodactyla.Rhinocerotidae (rhinoceroses). *See* Perissodactyla.

Rodentia (rodents including prairie dog).

Cenozoic: Hibbard, 1950.

Quaternary: Wood, A. E., 1933.

Tertiary: Stenzel, 1944d.

Rodents. *See* Rodentia.Ruminants. *See* Artiodactyla.

Salinity, paleontological significance: Gunter, 1947.

Sauropterygia (sauropterygians or marine reptiles).

Cretaceous: Graham, J. J., 1949; Shuler, 1947, 1950; Welles, 1949.

Scaphopoda (scaphopods or tusk shells).

Pennsylvanian: Miller, A. K., 1949a.

Permian: Clifton, 1942.

Tertiary: Palmer, 1937.

Sea cow. *See* Sirenia.Sea cucumbers. *See* Holothuroidea.Sea lizard. *See* Squamata.Sea urchins. *See* Echinoidea.

Paleontology—Continued

- Selachians. *See* Pisces.
 Shrimps. *See* Decapoda.
 Sirenia (including sea cow).
 Tertiary: Stenzel, 1944d.
 Sloths. *See* Edentata.
 Sponges. *See* Porifera.
 Squamata (including sea lizard).
 Cretaceous: McNulty, 1940.
 Starfish. *See* Stellerioidea.
 Stellerioidea (starfish).
 Cretaceous: Berry, C. T., 1941; Chelf, 1940a.
 Tertiary: Howe, 1942.
 "Stem reptiles." *See* Cotylosauria.
 Stone lilies. *See* Crinoidea.
 Stromatoporoidea (stromatoporoids).
 Cretaceous: Wells, 1934a.
 Tertiary. *See also* various categories of animals.
 Bauernschmidt, 1944; Beckelhymer, 1946;
 Beckman, 1943; Bowling, 1933; Brucks, 1935;
 Calahan, 1939; Cooke, 1935; Davies, A. M.,
 1934; Evans, G. L., 1949; Goldich, 1949; Plum-
 mer, F. B., 1933a, 1933b; Renick, 1936; Rols-
 hausen, 1939, 1940; Scott, G., 1940d; Stenzel,
 1939a, 1944d; Turner, F. E., 1938; Vanderpool,
 H. C., 1933a; Wasem, 1943; Whitney, 1934.
 Thecodontia (thecodonts). Evans, G. L., 1941a.
 Triassic: Case, E. C., 1934, 1943; Colbert,
 1950; Langston, 1949; Sawin, 1947; Sto-
 vall, J. W., 1936.
 Tooth-like structures. *See* Conodonts.
 Tracks, trails, burrows, borings.
 Cretaceous: Houston, 1933; Patterson, 1942a.
 Dinosaur tracks: Albritton, 1942; Berry,
 E. W., 1941a; Bird, 1939, 1941, 1944;
 Evans, G. L., 1941a; S——, A——,
 1941; Shuler, 1935a, 1937.
 Pennsylvanian: Fenton, 1937, 1937a.
 Permian: Ray, 1942.
 Quaternary: Wood, H. E., 1933.
 Tertiary: Johnston, C. S., 1937; Patterson,
 1942a; Stenzel, 1939a.
 Triassic. *See also* various categories of animals.
 Adkins, 1933a; King, P. B., 1938b.
 Trilobita (trilobites).
 Cambrian: Bridge, 1937, 1937a; Lochman,
 1938; Wilson, J. L., 1948, 1949, 1950a.
 Ordovician: Bridge, 1947a; Turner, F. E.,
 1939, 1940.
 Permian: Cooper, G. A., 1946a.
 Silurian: Roemer, 1935.
 Turtles. *See* Chelonia.
 Tusk shells. *See* Scaphopoda.
 Vermes (worms).
 Cretaceous: Stephenson, L. W., 1941a.
 Pennsylvanian: Howell, B. F., 1944.
 Tertiary: Gardner, J. A., 1939a.
 Vertebrata (vertebrates). *See also* Amphibia;
 Aves; Mammalia; Pisces; Reptilia.
 Cretaceous: Hesse, 1942a; McNulty, 1941a.
 Permian: Hesse, 1940, 1942a; McNulty,
 1941a; Olson, 1941a, 1948; Read, 1940;
 Romer, 1945.
 Quaternary: Evans, G. L., 1945; Hesse,
 1942a; McNulty, 1941a; Meade, 1945; Sel-
 lards, 1940a, 1940d, 1947, 1947a; Stovall,
 J. W., 1950; Witte, 1942.
 Tertiary: Hesse, 1933, 1940, 1942a, 1943;
 McNulty, 1941a; McWhirter, 1940; Plum-
 mer, F. B., 1933b; Sellards, 1939, 1940f;
 Wood, H. E., 1937.

Paleontology—Continued

- Triassic: Hesse, 1942a; McNulty, 1941a.
 Whales. *See* Cetacea.
 Worms. *See* Vermes.
 Paleotectonic maps: Eardley, 1949.
 Paleozoic. *See also* geologic systems.
 Correlations: Bridge, 1940a; Decker, 1936;
 Oborne, 1941.
 Deformation: Baker, C. L., 1935a; Keyes, 1936e;
 Moore, R. C., 1935; Sellards, 1935e; Van der
 Gracht, 1936.
 Field trips: Barnes, V. E., 1947b; Bullard, 1939a;
 Corpus Christi Geol. Soc., 1948; Plummer,
 F. B., 1940c; Roth, 1940.
 General stratigraphy: Cheney, 1940; Plummer,
 F. B., 1940b; Skinner, 1938.
 Ground water: Plummer, F. B., 1944.
 Historical geology: Sellards, 1938b.
 Oil and gas: Miser, 1934a; Shepherd, 1950.
 Paleogeography: Sellards, 1938.
 Paleontology. *See* Paleontology.
 Stratigraphy: King, P. B., 1945.
 Structural features: King, P. B., 1935.
 Unconformities: King, P. B., 1936; Moore, R. C.,
 1935.
 Well records: Dallas Petroleum Geologists, 1941;
 Imlay, 1944.
 Palo Duro basin. *See also* Plainview basin. Ingalls,
 1950.
 Palo Duro canyon: Hinton, 1943; Schoffelmayer,
 1941.
 Palo Pinto County.
 Building stone: Plummer, F. B., 1936.
 Clay: Plummer, F. B., 1936.
 Coal: Fieldner, 1946; Plummer, F. B., 1936.
 Field trips: Ardmore Geol. Soc., 1936; Scott, G.,
 1941.
 Geology, general: Plummer, F. B., 1936.
 Ground water: Plummer, F. B., 1936; Turner,
 S. F., 1934.
 Historical geology: Shuler, 1933.
 Map, geologic: McNulty, 1941; Plummer, F. B.,
 1936.
 Oil and gas. *See* Allen and Ritchie, Brazos, Cos-
 tello, Dalton Ranch, Hart Ranch, Holt Ranch,
 Lone Camp, Mineral Wells, South Brad, South
 Pickwick, Strawn, and Strawn Townsite fields
 under Oil and gas.
 Oil field waters: Barnes, V. E., 1946d.
 Paleontology: Bridge, 1940; Cooper, G. A., 1941;
 Geis, 1936; King, R. H., 1940; Moore, R. C.,
 1940b; Newell, 1938a; Plummer, F. B., 1936;
 Plummer, H. J., 1948; Strimble, 1948.
 Rock creep: McNulty, 1941.
 Sand and gravel: Plummer, F. B., 1936.
 Stratigraphy: Plummer, F. B., 1936.
 Structure (joint blocks): McNulty, 1941.
 Well records. *See* Ground water, above.
 Palo Pinto limestone. *See* Pennsylvanian strata.
 Panhandle. *See* High Plains.
 Panhandle formation. *See* Tertiary strata and rocks.
 Paluxy sand. *See* Cretaceous strata.
 Panola County.
 Cross section: Hazzard, 1939c.
 Ground water: Sundstrom, 1948; Texas State
 Bd. Water Engrs.
 Oil and gas. *See also* Carthage field under Oil
 and gas. Williams, N., 1945.
 Well records. *See* Ground water, above.
 Paraffin dirt, Orange field: Deussen, 1936b.
 Parafusulina zone. *See* Permian strata.

Parker County.

- Biostratigraphic relations: Lozo, 1944.
 Cross section: Gee, 1950.
 Field trips: Ardmore Geol. Soc., 1936; Scott, G., 1941.
 Ground water: Sundstrom, 1949.
 Maps, geologic: Adkins, 1938a; Armstrong, 1937b.
 Paleontology: Fenton, 1937a; Lozo, 1944; Moore, R. C., 1940b.
 Well records: Sundstrom, 1949.

Parks formation. *See* Pennsylvanian strata.

Parks Mountain sandstone. *See* Pennsylvanian strata.
 Parmer County.

- Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.
 Igneous rock, deep well: Patton, 1945a.
 Well records. *See also* Ground water, above. Patton, 1945a.

Pawpaw formation. *See* Cretaceous strata.

Peacock formation. *See* Permian strata.

Pearsall formation. *See* Cretaceous strata.

Pease River. *See* Streams.

Pease River group. *See* Permian strata.

Peat: Chelf, 1941a; Evans, G. L., 1941a; Harris, Geo. D., 1941; Plummer, F. B., 1941, 1943, 1945b; Potzger, 1943, 1947; Sellards, 1946b; Shafer, 1941; Stenzel, 1948d.

Pecan Gap chalk. *See* Cretaceous strata.

Pecos County. *See also* Barrilla Mountains; Blackstone arch; Cerf basin; Fort Lancaster platform; Fort Stockton arch; Glass Mountains; Hovey channel; Marathon region; Sierra Madera dome; Toyah basin.

- Basement rocks: Patton, 1947.
 Caves: Jackson, 1948.
 Cross sections: Fritz, 1940; Woods, E. H., 1940.
 Ground water: Broadhurst, 1949; Sayre, 1942a; Texas State Bd. Water Engrs.
 Historical geology: Adams, J. E., 1940.
 Maps, geologic: Darton, 1933; Eifler, 1948, 1950; Jones, C. T., 1938.
 Oil and gas. *See also* Abell, Apco, Fort Stockton, Payton, and Yates fields under Oil and gas. Daniels, 1944.
 Oil field waters: Berger, 1934.
 Paleontology: Moore, R. C., 1940b.
 Polyhalite: Cunningham, W. A., 1935.
 Soil survey: Carter, W. T., 1934.
 Stratigraphy: Ellison, 1948; Jones, T. S., 1944.
 Structure: Adams, J. E., 1940; Cole, 1940; McCoy, 1934.
 Sulfur: Baker, C. L., 1935.
 Unconformities: Carsey, 1936.
 Well records: Broadhurst, 1949; Carsey, 1936; Daniels, 1944; Dante, 1947; Patton, 1947; Texas State Bd. Water Engrs.

Pecos River. *See* Streams.

Pecos River basin.

- Ground water: Morgan, A. M., 1942; Sayre, 1942; Stafford, 1942; Theis, 1942.
 Lake and playa deposits: Morgan, A. M., 1942.
 Sedimentation: Smith, H. L., 1942.
 Soils: Smith, H. L., 1942.
 Solution phenomena: Morgan, A. M., 1942a.
 Stratigraphy: Lang, W. B., 1937; Theis, 1942.

Pecos uplift. *See* Central Basin Platform.

Pedernales dolomite. *See* Cambrian strata.

Pegmatites. *See* Igneous rocks.

Pelecypoda. *See* Paleontology.

Pelycosauria. *See* Paleontology.

Pendleton formation. *See* Tertiary strata and rocks.
 Pennsylvanian.

- Axis, maximum deposition: Barton, J. M., 1945.
 Boundary, Pennsylvanian-Permian: Cheney, 1940; King, P. B., 1934; Mohr, 1939; Moore, R. C., 1940; Romer, 1935; Sellards, 1933b.

Classification: Cheney, 1945, 1947a; Plummer, F. B., 1947, 1947a.

Comparison, Brazos, Colorado River sections: Lee, W., 1938b.

Correlations: Cheney, 1943, 1947a; Cooper, C. L., 1947; Dott, 1941; Harlton, 1933; Kapner, 1950; King, P. B., 1938b; Needham, 1940; Romer, 1935; Scott, G., 1944; Shimer, 1934; Thompson, M. L., 1935.

Field trips: Abilene Geol. Soc., 1948a, 1949, 1950; Ardmore Geol. Soc., 1936, 1937; Roth, 1940.

Glacial beds: Carney, 1935.

Ground water: Turner, S. F., 1934; White, W. N., 1948.

Historical geology: Lee, W., 1938b.

Nomenclature: Moore, R. C., 1936.

Orogeny, north-central Texas: Cheney, 1936, 1940.

Paleogeography. *See* Paleogeography.

Paleogeology. *See* Paleogeology.

Paleontology. *See* Paleontology and *also* Strata, below.

Paleotectonic map: Eardley, 1949.

Reefs. *See* Reefs.

Similarity, north-central Texas, Appalachian basin: Cross, A. T., 1950.

Strata.

Adams Branch limestone.

Paleontology: Williams, J. S., 1938.

Stratigraphy: Abilene Geol. Soc., 1949; Bullard, 1936; Cheney, 1940; Nickell, C. O., 1938.

Alta formation, stratigraphy: Skinner, 1940.

Atoka formation, terminology: Spivey, 1946.

Avis sandstone, stratigraphy: Bullard, 1936; Lee, W., 1938a; Nickell, C. O., 1938; Sellards, 1933b.

Aylor Bluff member, stratigraphy: Plummer, F. B., 1950.

Belknap limestone.

Paleontology: Williams, J. S., 1938.

Stratigraphy: Lee, W., 1938a.

Bellerophon limestone, stratigraphy: Nickell, C. O., 1938.

Bend group, stratigraphy: Applin, P. L., 1942; Bullard, 1936; Cheney, 1940, 1947a; Sellards, 1933b.

Berino member.

Paleontology: Nelson, L. A., 1940.

Stratigraphy: Nelson, L. A., 1940.

Big Saline formation.

Paleontology: Plummer, F. B., 1945, 1947, 1950.

Stratigraphy: Cheney, 1940, 1947a; Plummer, F. B., 1945, 1947, 1950.

Big Valley bed, stratigraphy: Cheney, 1947a.

Bishop's Cap member.

Paleontology: Nelson, L. A., 1940.

Stratigraphy: Nelson, L. A., 1940.

Blach Ranch limestone.

Paleontology: Williams, J. S., 1938.

Pennsylvanian—Continued

Strata—Continued

Blach Ranch limestone—Continued

Stratigraphy: Cheney, 1940; Lee, W., 1938a.

Bluff Creek shale, stratigraphy: Bullard, 1936; Nickell, C. O., 1938.

Bowers sand, oil and gas: Brown, A. B., 1943.

Brad formation.

Paleontology: Bullard, 1936; Moore, R. C., 1940b; Plummer, F. B., 1936; Williams, J. S., 1938.

Stratigraphy: Bullard, 1936; Nickell, C. O., 1938; Plummer, F. B., 1936; Sellards, 1933b.

Brannon Bridge limestone, stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1947a.

Brazos River sandstone.

Paleontology: Fenton, 1937, 1937a.

Stratigraphy: Abilene Geol. Soc., 1949; Nickell, C. O., 1939a; Plummer, F. B., 1936.

Breckenridge limestone.

Paleontology: Bullard, 1936; Williams, J. S., 1938.

Stratigraphy: Abilene Geol. Soc., 1949; Bullard, 1936; Cheney, 1940.

Brister Bluff lentil.

Paleontology: Plummer, F. B., 1950.

Stratigraphy: Plummer, F. B., 1950.

Brook lentil, stratigraphy: Plummer, F. B., 1950.

Brownwood shale.

Paleontology: Bullard, 1936; Plummer, F. B., 1950; Strimple, 1948.

Stratigraphy: Abilene Geol. Soc., 1949; Bullard, 1936; Cheney, 1947a; Plummer, F. B., 1950.

Bryson sand, oil and gas: Hiestand, 1941.

Bunger limestone.

Paleontology: Bullard, 1936.

Stratigraphy: Abilene Geol. Soc., 1949; Bullard, 1936; Lee, W., 1938a; Plummer, F. B., 1936.

Caddo conglomerate: Simons, 1943.

Caddo Creek formation.

Paleontology: Bullard, 1936; Williams, J. S., 1938.

Stratigraphy: Abilene Geol. Soc., 1949; Bullard, 1936; Cheney, 1940; Nickell, C. O., 1938; Plummer, F. B., 1936; Sellards, 1933b.

Caddo lime, stratigraphy: Applin, P. L., 1942.

Caddo Pool formation: Abilene Geol. Soc., 1949; Cheney, 1940.

Camp Colorado limestone.

Paleontology: Williams, J. S., 1938.

Stratigraphy: Bullard, 1936; Lee, W., 1938a; Nickell, C. O., 1938.

Camp Creek shale.

Paleontology: Bullard, 1936; Plummer, H. J., 1948.

Stratigraphy: Bullard, 1936; Nickell, C. O., 1938.

Canyon group.

Historical geology: Adams, H. H., 1939.

Oil and gas: Adams, H. H., 1939; Clayton, N., 1950; Oil and Gas Jour., 1949b; Stormont, 1949a.

Paleontology: Bullard, 1936; Moore, R.

Pennsylvanian—Continued

Strata—Continued

Canyon group—Continued

C., 1940b; Plummer, F. B., 1937a, 1950.

Stratigraphy: Applin, P. L., 1942; Brown, A. B., 1943; Bullard, 1936; Cheney, 1947a; Nickell, C. O., 1938; Plummer, F. B., 1950.

Capps limestone, stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1940, 1947a; Nickell, C. O., 1938.

Cedarton shale.

Paleontology: Bullard, 1936.

Stratigraphy: Abilene Geol. Soc., 1949; Bullard, 1936; Cheney, 1940; Nickell, C. O., 1938.

Chaffin limestone.

Paleontology: Williams, J. S., 1938.

Stratigraphy: Cheney, 1940; Nickell, C. O., 1938.

Cieneguita beds.

Paleontology: Miller, A. K., 1945b; Skinner, 1940.

Stratigraphy: Skinner, 1940.

Cisco group.

Clay deposits: Plummer, F. B., 1949.

Nomenclature: DeFord, 1942; Keyes, 1937; Romer, 1935.

Oil and gas: Holland, H. K., 1949.

Paleontology: Bullard, 1936; Fenton, 1937; Henbest, 1938; Mohr, 1939; Plummer, F. B., 1937a; Romer, 1937a.

Stratigraphy: Applin, P. L., 1942; Brown, A. B., 1943; Bullard, 1936; Cheney, 1940, 1947a; Lee, W., 1938a; Nickell, C. O., 1938; Sellards, 1933b.

Clear Creek limestone.

Paleontology: Bullard, 1936.

Stratigraphy: Bullard, 1936.

Colony Creek shale: Abilene Geol. Soc., 1949.

Comyn formation, stratigraphy: Cheney, 1940.

Coon Mountain sandstone, stratigraphy: Nickell, C. O., 1938.

Craddock clay.

Ceramic clay: Plummer, F. B., 1949.

Stratigraphy: Plummer, F. B., 1949.

Cross Cut sand, oil and gas: Klinger, 1941.

Crystal Falls limestone.

Paleontology: Williams, J. S., 1938.

Stratigraphy: Cheney, 1940; Lee, W., 1938a.

Curry clay.

Ceramic clay: Plummer, F. B., 1949.

Stratigraphy: Plummer, F. B., 1949.

Deese formation, oil and gas: Billings, M. H., 1934.

De Leon formation, stratigraphy: Cheney, 1940.

Dennis Bridge limestone, stratigraphy: Cheney, 1947a.

Dickerson member.

Paleontology: Plummer, F. B., 1936.

Stratigraphy: Cheney, 1947a.

Dimple limestone.

Paleontology: Ellison, 1941a; King, P. B., 1938b.

Stratigraphy: Eifer, 1943; King, P. B., 1938b; Sellards, 1933b.

Dog Bend limestone: Abilene Geol. Soc., 1949.

Eastland Lake formation, stratigraphy:

Pennsylvanian—Continued

Strata—Continued

- Cheney, 1940, 1947a.
Eastland sandstone, stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1940, 1947a; Plummer, F. B., 1936.
- East Mountain shale.
Paleontology: Plummer, F. B., 1936.
Stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1940, 1947a; Plummer, F. B., 1936.
- Finis shale.
Ceramic clay: Plummer, F. B., 1949.
Paleontology: Miller, A. K., 1950.
Stratigraphy: Plummer, F. B., 1936, 1949.
- Fusulina* zone, paleontology: Cooper, C. L., 1947; Dunbar, 1940.
- Gaptank formation.
Paleontology: King, P. B., 1938b; Miller, A. K., 1940b; Moore, R. C., 1940b.
Stratigraphy: King, P. B., 1938b; Sellards, 1938b.
- Garner formation.
Paleontology: Plummer, F. B., 1936.
Stratigraphy: Abilene Geol. Soc., 1949; Nickell, C. O., 1938a; Plummer, F. B., 1936; Sellards, 1938b.
- General stratigraphy: Cole, C. T., 1942c; Dott, 1941; Lee, W., 1938b; Lewis, F. E., 1938; Plummer, F. B., 1939a, 1947a; Scott, G., 1941; Wanless, 1947; Warner, 1939; West Texas Geol. Soc., 1946a.
- Gibbons conglomerate, stratigraphy: Plummer, F. B., 1945, 1950.
- Gilbert sand, oil and gas: Brown, A. B., 1943.
- Goen limestone, stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1947a.
- Gonzales Creek shale.
Paleontology: Plummer, F. B., 1936.
Stratigraphy: Plummer, F. B., 1936.
- Gonzales limestone, stratigraphy: Lee, W., 1938a.
- Graford formation.
Paleontology: Bullard, 1936; Ellison, 1941; King, R. H., 1940; Miller, A. K., 1940b; Moore, R. C., 1940a, 1940b; Newell, 1938a; Plummer, F. B., 1936; Williams, J. S., 1938.
Stratigraphy: Bullard, 1936; Cheney, 1940; Nickell, C. O., 1938; Plummer, F. B., 1936; Sellards, 1938b.
- Graham formation.
Paleontology: Bullard, 1936; Coryell, H. N., 1933; Geis, 1936; King, R. H., 1940; Miller, A. K., 1940b; Moore, R. C., 1940b; Plummer, F. B., 1936; Plummer, H. J., 1948; Williams, J. S., 1938.
Stratigraphy: Bullard, 1936; Cheney, 1940; Lee, W., 1938a; Nickell, C. O., 1938; Plummer, F. B., 1936; Sellards, 1938b.
- Grindstone Creek member, stratigraphy: Abilene Geol. Soc., 1949; Plummer, F. B., 1936.
- Gunsight limestone.
Paleontology: Bullard, 1936; Williams, J. S., 1938.
Stratigraphy: Abilene Geol. Soc., 1949; Bullard, 1936; Lee, W., 1938a; Nickell,

Pennsylvanian—Continued

Strata—Continued

- C. O., 1938.
Harpersville formation.
Paleontology: Bullard, 1936; Moore, R. C., 1940b; Williams, J. S., 1938.
Stratigraphy: Bullard, 1936; Lee, W., 1938a; Nickell, C. O., 1938; Sellards, 1938b.
- Haymond formation.
Boulders: Carney, 1935; King, P. B., 1938b.
Paleontology: Ellison, 1941a; King, P. B., 1938b; Moore, R. C., 1940b.
Petrography: King, P. B., 1938b.
Stratigraphy: Eardley, 1947; Eifler, 1943; King, P. B., 1938b; Sellards, 1938b.
- Hill Creek beds: Abilene Geol. Soc., 1949.
- Hog Creek shale, stratigraphy: Bullard, 1936; Cheney, 1940; Nickell, C. O., 1938; Plummer, F. B., 1936.
- Home Creek limestone.
Paleontology: Bullard, 1936; Williams, J. S., 1938.
Stratigraphy: Abilene Geol. Soc., 1949; Bullard, 1936; Cheney, 1940, 1947a; Nickell, C. O., 1938; Plummer, F. B., 1936.
- Hoxbar formation, oil and gas: Billings, M. H., 1934.
- Ivan limestone.
Paleontology: Williams, J. S., 1938.
Stratigraphy: Abilene Geol. Soc., 1949; Lee, W., 1938a.
- Jacksboro limestone, paleontology: Newell, 1938a.
- Johns Valley shale, Oklahoma, correlation: Harlton, 1933.
- Keechi Creek formation.
Paleontology: Plummer, F. B., 1936.
Stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1940; Plummer, F. B., 1936.
- Kickapoo Creek group, stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1947a.
- Kickapoo Falls limestone: Abilene Geol. Soc., 1949.
- Lake Pinto sandstone, stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1947; Plummer, F. B., 1936.
- Lampasas series, stratigraphy: Cheney, 1940, 1945, 1947a.
- La Tuna member.
Paleontology: Nelson, L. A., 1940.
Stratigraphy: Nelson, L. A., 1940.
- Lazy Bend member, stratigraphy: Abilene Geol. Soc., 1949; Plummer, F. B., 1936.
- Lemons Bluff member.
Paleontology: Plummer, F. B., 1945, 1950.
Stratigraphy: Plummer, F. B., 1945, 1950.
- Lohn shale, stratigraphy: Nickell, C. O., 1938.
- Lone Camp limestone, stratigraphy: Cheney, 1940.
- Magdalena group.
Nomenclature: DeFord, 1942; Keyes, 1933a.
Paleontology: Girty, 1939; King, P. B., 1945; Nelson, L. A., 1937, 1940, 1947; Thompson, M. L., 1942.

Pennsylvanian—Continued

Strata—Continued

Magdalena group—Continued

Stratigraphy: King, P. B., 1945; Nelson, L. A., 1940; Powers, 1940; Sellards, 1933b.

Marble Falls limestone.

Building stone: Barnes, V. E., 1947a.

Correlation: Harlton, 1933; Thompson, M. L., 1935.

Divisions: Plummer, F. B., 1942.

Paleontology: Moore, R. C., 1937, 1940b,

1945; Plummer, F. B., 1936, 1950;

Plummer, H. J., 1945; Spivey, 1946;

Thompson, M. L., 1942, 1947.

Petrography: Cloud, 1948b.

Stratigraphy: Applin, P. L., 1942;

Barnes, V. E., 1945, 1948; Cheney,

1940, 1947a; Cloud, 1948b; Plummer,

F. B., 1936, 1945, 1950; Sellards,

1933b; Thompson, M. L., 1947.

Vegetation: Cloud, 1946.

Volcanic glass inclusions: Patton, 1936.

Martin sand, oil and gas: Brown, A. B., 1943.

Meek Bend limestone: Abilene Geol. Soc., 1949.

Merriman limestone, stratigraphy: Abilene Geol. Soc., 1949; Plummer, F. B., 1936.

Millsap Lake formation.

Paleontology: King, R. H., 1940; Miller,

A. K., 1940b, 1949a; Moore, R. C.,

1940b; Newell, 1938a; Plummer,

F. B., 1936, 1938c; Plummer, H. J.,

1948.

Stratigraphy: Cheney, 1940; Nickell, C.

O., 1938a; Plummer, F. B., 1936; Sel-

lards, 1933b.

Mineral Wells formation.

Paleontology: Ellison, 1941; Geis, 1936;

King, R. H., 1940; Moore, R. C.,

1940b; Plummer, F. B., 1936.

Stratigraphy: Nickell, C. O., 1938;

Plummer, F. B., 1936; Sellards, 1933b.

Mingus shale, stratigraphy: Abilene Geol.

Soc., 1949; Nickell, C. O., 1939a; Plummer,

F. B., 1936.

Morrow age (of): Cheney, 1947a; Cloud, 1948b.

Paleontology: Thompson, M. L., 1945.

Nocona limestone, stratigraphy: Clark, G. C., 1940.

Noodle Creek limestone, oil and gas: Imholz, 1941a.

Obregon formation, stratigraphy: Cheney, 1940.

Palo Pinto limestone.

Paleontology: Moore, R. C., 1940b;

Plummer, F. B., 1936.

Stratigraphy: Abilene Geol. Soc., 1949;

Cheney, 1940, 1947a; Nickell, C. O.,

1938; Plummer, F. B., 1936; Sellards,

1933b.

Talus creep: McNulty, 1941.

Parks formation, stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1940, 1947a.

Parks Mountain sandstone, stratigraphy: Cheney, 1940; Nickell, C. O., 1938.

Placid shale.

Paleontology: Bullard, 1936.

Stratigraphy: Bullard, 1936; Cheney, 1940.

Pennsylvanian—Continued

Strata—Continued

Pontotoc group, oil and gas: Billings, M. H., 1934.

Posideon shale, stratigraphy: Plummer, F. B., 1936.

Pueblo formation.

Paleontology: Bullard, 1936; Moore, R.

C., 1940b; Romer, 1935; Williams, J.

S., 1938.

Stratigraphy: Bullard, 1936; Cheney,

1940; Lee, W., 1938a; Nickell, C. O.,

1938; Sellards, 1933b.

Quinn clay.

Ceramic clay: Plummer, F. B., 1949.

Stratigraphy: Plummer, F. B., 1949.

Ranger limestone.

Paleontology: Bullard, 1936.

Stratigraphy: Abilene Geol. Soc., 1949;

Bullard, 1936; Cheney, 1940, 1947a;

Nickell, C. O., 1938; Plummer, F. B.,

1936.

Rayville formation, stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1947a.

Rich sand, oil and gas: Brown, A. B., 1943.

Riker sandstone, stratigraphy: Abilene Geol. Soc., 1949; Nickell, C. O., 1938.

Rochelle conglomerate, stratigraphy: Bullard, 1936; Cheney, 1940; Plummer, F. B., 1950.

Rock Crossing limestone, oil and gas: Stilley, 1937.

Rocky Mound limestone, stratigraphy: Lee, W., 1938a.

Saddle Creek limestone.

Paleontology: Bullard, 1936; Williams,

J. S., 1938.

Stratigraphy: Bullard, 1936; Cheney,

1940; Lee, W., 1938a; Nickell, C. O.,

1938.

Salem School limestone, stratigraphy: Lee, W., 1938a.

Salesville shale.

Paleontology: Plummer, F. B., 1936.

Stratigraphy: Abilene Geol. Soc., 1949;

Cheney, 1940; Plummer, F. B., 1936.

Salt Creek Bend shale.

Paleontology: Bullard, 1936.

Stratigraphy: Bullard, 1936.

Santo limestone, stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1947a.

Seaman Ranch shale, stratigraphy: Plummer, F. B., 1936.

Sipe Springs formation, stratigraphy:

Cheney, 1940.

Sloan formation.

Paleontology: Plummer, F. B., 1945,

1947, 1950.

Stratigraphy: Cheney, 1947a; Plum-

mer, F. B., 1945, 1947, 1950.

Smithwick shale.

Building stone: Barnes, V. E., 1947a.

Correlation: Harlton, 1933.

Oil and gas: Donoghue, 1941.

Paleontology: Girty, 1938; Miller, A. K.,

1940b; Moore, R. C., 1940b; Plummer,

F. B., 1936, 1937a, 1945, 1947, 1950;

Plummer, H. J., 1945; Thompson,

M. L., 1947.

Stratigraphy: Applin, P. L., 1942;

Barnes, V. E., 1948; Cheney, 1940,

1947a; Cloud, 1948b; Moore, R. C.,

Pennsylvanian—Continued

Strata—Continued

1945; Plummer, F. B., 1936, 1945, 1947, 1950; Sellards, 1933b; Thompson, M. L., 1947.

Soldiers Hole lentil.

Paleontology: Plummer, F. B., 1950.
Stratigraphy: Plummer, F. B., 1950.

Speck Mountain limestone.

Paleontology: Williams, J. S., 1938.
Stratigraphy: Abilene Geol. Soc., 1949; Bullard, 1936; Cheney, 1940; Nickell, C. O., 1938.

Springer formation, stratigraphy: Cheney, 1947.

Stockwether limestone.

Paleontology: Bullard, 1936; Williams, J. S., 1938.
Stratigraphy: Bullard, 1936; Nickell, C. O., 1938.

Strawn group.

Building stone: Barnes, V. E., 1947a.
Nomenclature: Cheney, 1940.
Oil and gas: Christner, 1940; Stormont, 1949a; Tucker, M., 1938a.
Paleontology: Miller, A. K., 1940b; Mohr, 1939; Plummer, F. B., 1950; Plummer, H. J., 1945; Scott, G., 1945.
Stratigraphy: Brown, A. B., 1943; Bullard, 1936; Nickell, C. O., 1938; Plummer, F. B., 1950; Sellards, 1933b.

Strawn-Smithwick contact: Plummer, F. B., 1947.

Tesus formation.

Paleontology: King, P. B., 1938b.
Petrography: King, P. B., 1938b.
Stratigraphy: Eifer, 1943; King, P. B., 1938b; Sellards, 1933b.

Thrifty formation.

Paleontology: Bullard, 1936; Moore, R. C., 1940b; Williams, J. S., 1938.
Stratigraphy: Bullard, 1936; Cheney, 1940; Lee, W., 1938a; Nickell, C. O., 1938; Sellards, 1933b.

Triticites zone, paleontology: Dunbar, 1940.

Turkey Creek sandstone, stratigraphy: Abilene Geol. Soc., 1949; Plummer, F. B., 1936.

Village Bend limestone, stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1940.

Waldrip member.

Paleontology: Bullard, 1936; Williams, J. S., 1938.
Stratigraphy: Abilene Geol. Soc., 1949; Bullard, 1936; Nickell, C. O., 1938.

Wayland shale.

Paleontology: Bullard, 1936; Coryell, H. N., 1933; Elias, 1938; Girty, 1939; Newell, 1938a; Williams, J. S., 1938.
Stratigraphy: Abilene Geol. Soc., 1949; Bullard, 1936; Nickell, C. O., 1938.

Whitt group, stratigraphy: Cheney, 1940.

Wiles limestone, stratigraphy: Abilene Geol. Soc., 1949; Plummer, F. B., 1936.

Winchell member.

Paleontology: Williams, J. S., 1938.
Stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1940; Nickell, C. O., 1938.

Wolf Mountain shale.

Paleontology: Plummer, F. B., 1936.
Stratigraphy: Abilene Geol. Soc., 1949; Plummer, F. B., 1936.

Pennsylvanian—Continued

Strata—Continued

Wynn limestone, stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1940.

Structural features: Cheney, 1940.

Subdivision: Cheney, 1945.

Unconformities: Cheney, 1936.

Underground position: Sellards, 1933b.

Pepper formation. *See* Cretaceous strata.Percha shale. *See* Devonian strata.Perissodactyla. *See* Paleontology.

Permian.

Bibliographies: Anonymous, 1937; Branson, C. C., 1948.

Boundary, Pennsylvanian-Permian. *See* Pennsylvanian system.

Classification: Moore, R. C., 1949; Tomlinson, 1940.

Comparison, Brazos, Colorado river sections: Lee, W., 1938b.

Correlations: DeFord, 1941a; Dott, 1941; Dunbar, 1940; Hills, 1942; King, P. B., 1938, 1938b, 1942, 1947, 1948; Lewis, F. E., 1941; Lloyd, 1947; Mohr, 1939; Newell, 1938, 1940; Plummer, F. B., 1937, 1937a; Romer, 1935; Schuchert, 1935; Shimer, 1934; Skinner, 1946; Westoll, 1941.

Field trips: Abilene Geol. Soc., 1946, 1948a; Roth, 1940; Scott, G., 1941; West Texas Geol. Soc., 1949c, 1950.

Historical geology: Adams, H. H., 1943; Adams, J. E., 1933, 1940, 1941a, 1950.

Nomenclature: Keyes, 1933, 1938e; Moore, R. C., 1936, 1949; Schenck, 1941.

Orogeny: Van der Gracht, 1933.

Outcrops, Texas Panhandle: Kansas Geol. Soc., 1934.

Paleobotany. *See* Paleobotany and *also* Strata, below.

Paleoclimate. *See* Paleoclimate.

Paleogeography. *See* Paleogeography.

Paleogeology. *See* Paleogeology.

Paleontology. *See* Paleontology and *also* Strata, below.

Paleotectonic map: Eardley, 1949.

Problems: Anderson, G. E., 1933; DeFord, 1940a.

Radioactivity measurement: Bell, K. G., 1940.

Reefs. *See* Reefs.

Rivers, chlorides of: Burr, 1943b.

Sedimentation. *See* Sedimentation, west Texas.

Standard section: Adams, J. E., 1939.

Strata.

Abo sandstone.

Nomenclature: DeFord, 1942.

Sub-surface, west Texas: Fritz, 1940.

Acme dolomite, stratigraphy: Roth, 1945.

Admiral formation.

Paleontology: Dunkle, 1946; Romer, 1935, 1937, 1939; Sawin, 1941.

Stratigraphy: Bullard, 1936; Evans, G. L., 1941; Kramer, 1934a; Moore, R. C., 1949; Sellards, 1933b.

Alibates dolomite, stratigraphy: Adams, J. E., 1935; Warren, 1946a.

Alta formation, stratigraphy: Sellards, 1933b; Skinner, 1940.

Altuda member, paleontology: Heritsch, 1936; King, P. B., 1938b.

Arroyo formation.

Paleontology: Dunkle, 1939; Moore, R. C., 1949; Newell, 1938a; Olson, 1941a; Romer, 1935, 1944; Sternberg, 1942.

Permian—Continued

Strata—Continued

Arroyo formation—Continued

Stratigraphy: Abilene Geol. Soc., 1949;
Moore, R. C., 1949; Page, 1940; Sellards, 1933b.

Aspermont dolomite, stratigraphy: Roth, 1937.

Bead Mountain limestone, stratigraphy: Abilene Geol. Soc., 1949; Moore, R. C., 1949.

Beaverburk limestone, stratigraphy: Evans, G. L., 1941.

Bell Canyon formation.

Paleontology: King, P. B., 1942.

Stratigraphy: King, P. B., 1942, 1948.

Belle Plains formation.

Paleontology: Romer, 1935, 1937, 1941; Sawin, 1941.

Stratigraphy: Evans, G. L., 1941; Moore, R. C., 1949; Sellards, 1933b.

"Big Lime," porosity: Berger, 1934.

Bissett conglomerate.

Paleobotany: King, P. B., 1934.

Paleontology: King, P. B., 1934; Sellards, 1933b.

Stratigraphy: King, P. B., 1934; McMillan, 1949a; Sellards, 1933b.

Blaine formation.

Paleobotany: Clifton, 1944.

Paleontology: Clifton, 1942, 1944.

Stratigraphy: Clifton, 1940, 1944; Page, 1940; Roth, 1945; Sellards, 1933b.

"Blaine of Texas":

Equivalents: Clifton, 1945; Mohr, 1939.

Stratigraphy: Dickey, 1940; Roth, 1937.

Bone Spring limestone.

Deposition: Sloss, 1947.

Paleontology: Cushman, J. A., 1942; Dunbar, 1937; King, P. B., 1934, 1942, 1948; Miller, A. K., 1945a; Newell, 1938a.

Stratigraphy: King, P. B., 1934, 1942, 1948; Lang, W. B., 1937.

Briggs formation, stratigraphy: Albritton, 1938; Huffington, 1943.

"Brown Lime," stratigraphy: Denham, 1941.

Brushy Canyon formation.

Paleontology: King, P. B., 1948.

Sedimentation: King, P. B., 1948.

Stratigraphy: King, P. B., 1942, 1948.

Camp Colorado limestone, stratigraphy: Abilene Geol. Soc., 1949; Moore, R. C., 1949.

Camp Creek shale.

Paleontology: Miller, A. K., 1947a; Moore, R. C., 1949.

Stratigraphy: Moore, R. C., 1949.

Capitan limestone.

Barrier reef: Keyes, 1933c.

Nomenclature: Keyes, 1941.

Paleontology: King, P. B., 1934, 1938b, 1942, 1948; Miller, A. K., 1945, 1945b; Newell, 1938a; Sellards, 1933b.

Sedimentation: King, P. B., 1948.

Stratigraphy: Adams, J. E., 1935, 1950; King, P. B., 1934, 1938b, 1942, 1948; Lang, W. B., 1937; Sellards, 1933b.

Carlsbad limestone.

Nomenclature: DeFord, 1940.

Paleontology: King, P. B., 1942, 1948.

Stratigraphy: King, P. B., 1942, 1948; Lang, W. B., 1937.

Castile formation.

Deposition: King, R. H., 1947; Lang,

Permian—Continued

Strata—Continued

W. B., 1950.

Ground water: Sayre, 1942a.

Nomenclature: DeFord, 1940.

Potash: Delacote, 1934; Kroenlein, 1939.

Sulfur: Baker, C. L., 1935; Evans, G. L., 1946.

Stratigraphy: Adams, J. E., 1935, 1936, 1944a; King, P. B., 1934, 1942, 1948;

Kroenlein, 1939; Lang, W. B., 1935; Sellards, 1933b.

Cedartop dolomite, stratigraphy: Roth, 1945.

Chalk Bluff formation, stratigraphy: King, P. B., 1942; Lang, W. B., 1937.

Chaney gypsum and anhydrite beds, stratigraphy: Roth, 1945.

Cherry Canyon formation.

Paleontology: Clifton, 1944a; King, P. B., 1942, 1948.

Stratigraphy: King, P. B., 1942, 1948.

Childress dolomite: Roth, 1937.

Paleobotany: Elias, 1947.

Stratigraphy: Roth, 1945.

Chinati series, stratigraphy: Ross, 1935b; Skinner, 1938.

Choza formation, stratigraphy: Page, 1940; Sellards, 1933b.

Cibolo formation.

Mineralization: Cullison, 1944a; Ross, 1943a.

Paleontology: Miller, A. K., 1945b; Moore, R. C., 1940b; Ross, 1943a; Skinner, 1940.

Stratigraphy: McMillan, 1949a; Ross, 1943a; Sellards, 1933b; Skinner, 1940.

Cieneguita beds, stratigraphy: Sellards, 1933b.

Claytonville dolomite, stratigraphy: Evans, G. L., 1942, 1946b.

Clearfork group: Hill, 1942.

Paleobotany: Adams, J. E., 1933.

Paleontology: Olson, 1937, 1939; Romer, 1935; White, T. E., 1939.

Stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1940; Dickey, 1940; Ellison, 1948; Evans, G. L., 1941; Page, 1940;

Roth, 1942a, 1945; Sellards, 1933b.

Clyde formation.

Paleontology: Romer, 1935; Sawin, 1941.

Stratigraphy: Evans, G. L., 1941; Moore, R. C., 1949; Sellards, 1933b.

Coleman Junction limestone.

Paleontology: Williams, J. S., 1938.

Stratigraphy: Abilene Geol. Soc., 1949; Bullard, 1936; Kramer, 1934a; Lee, W., 1938a; Moore, R. C., 1949; Nickell, C. O., 1938.

Cowden anhydrite: Giesey, 1941.

Custer formation.

Paleontology: Newell, 1938, 1939.

Stratigraphy: Patton, 1938; Roth, 1937.

Cutoff shaly member.

Paleontology: King, P. B., 1948.

Stratigraphy: King, P. B., 1942, 1948.

Delaware Mountain formation.

Ground water: Sayre, 1942a.

Nomenclature: DeFord, 1940.

Paleontology: Dunbar, 1937; Girty, 1934; King, P. B., 1934; Sellards, 1933b; Stoyanow, 1949.

Stratigraphy: Adams, J. E., 1935; King,

Permian—Continued

Strata—Continued

- P. B., 1934, 1942; Lang, W. B., 1937; Sellards, 1933b.
- Dewey Lake formation: Hill, J., 1942.
- Stratigraphy: Adams, J. E., 1944a; Denham, 1941; Diekey, 1940; Ellison, 1948; Giesey, 1941; Page, 1940.
- Dog Canyon limestone, stratigraphy: Lang, W. B., 1937.
- Dog Creek shale.
- Equivalents: Clifton, 1945.
- Paleobotany: Clifton, 1944.
- Paleontology: Clifton, 1942, 1944.
- Stratigraphy: Cheney, 1940; Clifton, 1940, 1944; Page, 1940; Roth, 1945.
- Double Mountain group.
- Paleontology: Wilson, J. A., 1950a.
- Stratigraphy: Evans, G. L., 1941a, 1942, 1946b; Gould, 1945; Sellards, 1933b.
- Elm Creek limestone.
- Paleontology: Miller, A. K., 1947.
- Stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1940; Moore, R. C., 1949.
- El Reno formation: Perini, 1941.
- Nomenclature: DeFord, 1940.
- Stratigraphy: Cheney, 1940.
- Fisk formation, stratigraphy: Cheney, 1940.
- Flower-pot shale, stratigraphy: Clifton, 1940; Page, 1940; Roth, 1945.
- Frijole shale, stratigraphy: Adams, J. E., 1936.
- Getaway limestone.
- Paleontology: King, P. B., 1948.
- Stratigraphy: King, P. B., 1948.
- General stratigraphy: Albritton, 1941; DeFord, 1937; Dott, 1941; Effler, 1950; Getzenaner, F. M., 1943; King, P. B., 1936b, 1936c; Lewis, F. E., 1938; Powers, 1940; Read, 1943; Ross, 1943a; Smith, J. F., 1941a; Warner, 1939; West Texas Geol. Soc., 1939, 1946a; Wheeler, R. R., 1948.
- Gilliam member, paleontology: Dunbar, 1937; King, P. B., 1938b.
- Glorieta sandstone: Hill, J., 1942.
- Stratigraphy: Cox, 1940; Woods, E. H., 1940.
- Goat Seep limestone.
- Nomenclature: King, P. B., 1948.
- Paleontology: King, P. B., 1942, 1948.
- Stratigraphy: King, P. B., 1942, 1948.
- Goldsmith formation, stratigraphy: Cox, 1940.
- Gouldbusk limestone.
- Paleontology: Moore, R. C., 1949.
- Stratigraphy: Abilene Geol. Soc., 1949; Moore, R. C., 1949.
- Grape Creek limestone.
- Paleontology: Miller, A. K., 1947; Moore, R. C., 1949.
- Stratigraphy: Abilene Geol. Soc., 1949; Evans, G. L., 1941; Kramer, 1934a; Moore, R. C., 1949.
- Grayburg formation: Hill, J., 1942.
- Stratigraphy: Diekey, 1940; Ellison, 1948; Giesey, 1941; Page, 1940.
- Guadalupe series.
- Nomenclature: Keyes, 1938c.
- Paleontology: Keyes, 1938a.
- Red beds: Keyes, 1938b.
- Stratigraphy: Keyes, 1936.
- Guadalupe group.
- Paleogeography: King, P. B., 1948.

Permian—Continued

Strata—Continued

- Paleontology: King, P. B., 1948; King, R. E., 1942.
- Sedimentation: King, P. B., 1948.
- Stratigraphy: King, P. B., 1942, 1948; King, R. E., 1942.
- Guthrie dolomite, stratigraphy: Cheney, 1940; Roth, 1937, 1945.
- Hegler limestone.
- Paleontology: King, P. B., 1948.
- Stratigraphy: King, P. B., 1948.
- Hess formation.
- Paleontology: Sellards, 1933b.
- Stratigraphy: Sellards, 1933b.
- Holt "pay": Cole, 1940a, 1943; Sanford, 1940a.
- Hords Creek limestone, stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1940; Moore, R. C., 1949.
- Horse Creek limestone.
- Paleontology: Williams, J. S., 1938.
- Stratigraphy: Bullard, 1936; Nickell, C. O., 1938.
- Hueco limestone.
- Nomenclature: Keyes, 1938a, 1936a, 1938d.
- Paleontology: Dunbar, 1937; Girty, 1937; King, P. B., 1934, 1942, 1945.
- Stratigraphy: King, P. B., 1934, 1942, 1945.
- Jagger Bend limestone, stratigraphy: Abilene Geol. Soc., 1949; Moore, R. C., 1949.
- Jim Ned shale, stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1940; Moore, R. C., 1949.
- Kiser gypsum and anhydrite beds, stratigraphy: Roth, 1945.
- La Huerta silt, stratigraphy: Adams, J. E., 1944a.
- Lamar limestone.
- Paleontology: King, P. B., 1948.
- Stratigraphy: King, P. B., 1948; Lang, W. B., 1937.
- Leonard formation.
- Paleobotany: Elias, 1943.
- Paleontology: Albritton, 1937; Clifton, 1942; Dunbar, 1937, 1941; Kellett, 1943; King, P. B., 1934, 1938b, 1942, 1948; King, R. E., 1942; Miller, A. K., 1945, 1945a, 1945b; Mohr, 1939; Okulitch, 1937; Roth, 1942a; Sellards, 1933b; Sohn, 1950.
- Stratigraphy: Albritton, 1949; Cheney, 1940; King, P. B., 1934, 1938b, 1942, 1948; King, R. E., 1942; Longwell, 1936; Mohr, 1939; Moore, R. C., 1946; Roth, 1942a; Sellards, 1933b.
- Lost Creek shale.
- Paleontology: Moore, R. C., 1949.
- Stratigraphy: Abilene Geol. Soc., 1949; Moore, R. C., 1949.
- Louann salt: Hazzard, 1947a.
- Lueders limestone.
- Paleontology: Miller, A. K., 1945; Moore, R. C., 1949; Read, 1940a.
- Stratigraphy: Abilene Geol. Soc., 1949; Cheney, 1940; Evans, G. L., 1941; Kramer, 1934a; Moore, R. C., 1949; Sellards, 1933b.
- Lytle limestone: Abilene Geol. Soc., 1949.
- Mangum dolomite, stratigraphy: Roth, 1945.

Permian—Continued

Strata—Continued

Manzanita limestone.

Paleontology: Clifton, 1944a; King, P. B., 1948.

Stratigraphy: King, P. B., 1948.

Medicine Lodge dolomite, stratigraphy: Roth, 1945.

Merkel dolomite: Kramer, 1934; Patton, 1938.

Millersview limestone, stratigraphy: Kramer, 1934a.

Moran formation.

Paleontology: Bullard, 1936; Henderson, G. G., 1950; Moore, R. C., 1940b; Newell, 1942; Romer, 1935, 1937; Williams, J. S., 1938.

Stratigraphy: Bullard, 1936; Cheney, 1940; Lee, W., 1938a; Moore, R. C., 1949; Nickell, C. O., 1938; Sellards, 1933b.

Ochoa series.

Age: Donegan, 1950.

Stratigraphy: Adams, J. E., 1944a; King, P. B., 1942, 1948; King, R. E., 1942.

Ocotillo silt member, stratigraphy: DeFord, 1941.

Overall limestone, stratigraphy: Abilene Geol. Soc., 1949; Moore, R. C., 1949.

Parafusulina zone, paleontology: Dunbar, 1940.

Peacock formation, stratigraphy: Evans, G. L., 1942, 1946b; Patton, 1938; Sellards, 1933b.

Pease River group, stratigraphy: Roth, 1942a, 1945.

Pierce Canyon red beds, stratigraphy: Adams, J. E., 1935, 1936; Lang, W. B., 1935.

Pinery limestone.

Paleontology: King, P. B., 1948.

Stratigraphy: King, P. B., 1948.

Polydizodina zone, paleontology: Dunbar, 1940.

Powwow conglomerate, stratigraphy: King, P. B., 1934.

Pseudoschwagerina zone, paleontology: Dunbar, 1940.

Pueblo formation.

Paleontology: Newell, 1942.

Stratigraphy: Moore, R. C., 1949.

Putnam formation.

Paleontology: Moore, R. C., 1940b; Romer, 1935; Sawin, 1941; Williams, J. S., 1938.

Stratigraphy: Bullard, 1936; Cheney, 1940; Lee, W., 1938a; Moore, R. C., 1949; Nickell, C. O., 1938; Sellards, 1933b.

Quartermaster formation.

Paleontology: Roth, 1941.

Relation to Dockum group: Griley, 1933.

Stratigraphy: Roth, 1941.

Queen sandstone: Hill, J., 1942.

Stratigraphy: Dickey, 1940; Ellison, 1948; Giesey, 1941; Lang, W. B., 1937; Page, 1940.

Rader limestone.

Paleontology: King, P. B., 1948.

Stratigraphy: King, P. B., 1948.

Rainy limestone: Abilene Geol. Soc., 1949.

Permian—Continued

Strata—Continued

Red beds.

Correlation, Oklahoma section: Gould, 1945.

Ground water: Sayre, 1942a.

Nomenclature: Gould, 1945.

Royston gypsum, stratigraphy: Roth, 1937.

Rustler formation: Hill, J., 1942; Morgan, A. M., 1942; Sayre, 1942a.

Ground water: Knowles, 1947.

Paleontology: Donegan, 1950.

Stratigraphy: Adams, J. E., 1935, 1936, 1944a; Dickey, 1940; Ellison, 1948; Fritz, 1940; Giesey, 1941; King, P. B., 1934, 1942; Kroenlein, 1939; Lang, W. B., 1935; Page, 1940; Sellards, 1933b; Woods, E. H., 1940.

Saddle Creek limestone.

Paleontology: Heritsch, 1936a.

Stratigraphy: Abilene Geol. Soc., 1949; Moore, R. C., 1949.

Salado halite: Hill, J., 1942; Morgan, A. M., 1942; Sayre, 1942a.

Deposition: Lang, W. B., 1949, 1950.

Nomenclature: DeFord, 1940.

Solution phenomena: Morgan, A. M., 1942a.

Stratigraphy: Adams, J. E., 1944a; Ellison, 1948; Giesey, 1941; King, P. B., 1942; Kroenlein, 1939; Lang, W. B., 1935, 1939; Mansfield, 1937.

Salt Creek Bend shale, stratigraphy: Moore, R. C., 1949.

San Andres limestone: Hill, J., 1942; Klinger, 1950.

Age: Skinner, 1946.

Correlations: Lewis, F. E., 1941; Skinner, 1946.

Contact with Whitehorse: Cox, 1940.

Deposition: Lewis, F. E., 1941.

Nomenclature: DeFord, 1940.

Paleontology: Lewis, F. E., 1941.

Position, Permian basin: Lewis, F. E., 1941.

Solution phenomena: Morgan, A. M., 1942a.

Stratigraphy: Cheney, 1940; Cole, 1940a; Dickey, 1940; Ellison, 1948; Fritz, 1940; King, R. E., 1942; Page, 1940; Woods, E. H., 1940.

Subdivisions: Clifton, 1940.

San Angelo sandstone: Hill, J., 1942.

Copper: McSpadden, 1940.

Stratigraphy: Cheney, 1940; Page, 1940; Roth, 1937, 1945; Sellards, 1933b.

Santa Anna Branch shale, stratigraphy: Bullard, 1936; Moore, R. C., 1949; Nickell, C. O., 1938.

Santa Anna shale, stratigraphy: Bullard, 1936; Moore, R. C., 1949; Nickell, C. O., 1938.

Sedwick limestone.

Paleontology: Bullard, 1936; Williams, J. S., 1938.

Stratigraphy: Bullard, 1936; Lee, W., 1938a; Moore, R. C., 1949; Nickell, C. O., 1938.

Seven River's member: Hill, J., 1942.

Stratigraphy: Dickey, 1940; Ellison, 1948; Giesey, 1941; Lang, W. B., 1937; Page, 1940.

Shimer dolomite, stratigraphy: Roth, 1945.

Permian—Continued

Strata—Continued

South Wells limestone.

Paleontology: King, P. B., 1948.

Stratigraphy: King, P. B., 1948.

Standpipe limestone: Abilene Geol. Soc., 1949.

Stockwether limestone, stratigraphy: Abilene Geol. Soc., 1949; Moore, R. C., 1949.

Talpa limestone.

Paleontology: Moore, R. C., 1949.

Stratigraphy: Evans, G. L., 1941; Kramer, 1934a; Moore, R. C., 1949.

Tansill formation, stratigraphy: DeFord, 1941; Dickey, 1940; Ellison, 1948; Giesey, 1941; Page, 1940.

Tessey limestone.

Correlation: King, P. B., 1938b.

Stratigraphy: King, P. B., 1942.

Three Twins member, stratigraphy: Lang, W. B., 1937.

Upper Castile formation, stratigraphy: Dickey, 1940; Fritz, 1940; Page, 1940; Woods, E. H., 1940.

Vaca Trieste sand, stratigraphy: Adams, J. E., 1944a.

Vale formation.

Paleobotany: Wilson, J. A., 1948b.

Paleontology: Olson, 1948; Wilson, J. A., 1948b, 1949.

Stratigraphy: Abilene Geol. Soc., 1949; Page, 1940; Sellards, 1933b.

Valera shale, stratigraphy: Abilene Geol. Soc., 1949; Moore, R. C., 1949.

Victorio Peak member.

Paleontology: King, P. B., 1948.

Stratigraphy: King, P. B., 1942, 1948.

Voss shale, stratigraphy: Abilene Geol. Soc., 1949; Moore, R. C., 1949.

Wagon Yard gypsum, stratigraphy: Roth, 1937.

Waldrip shale, stratigraphy: Moore, R. C., 1949.

Watts Creek shale, stratigraphy: Bullard, 1936; Moore, R. C., 1949; Nickell, C. O., 1938.

Werner formation.

Age: Hazzard, 1947a.

Distribution: Hazzard, 1947a.

Whitehorse sandstone: Hill, J., 1942; Perini, 1941.

Contact with San Andres: Cox, 1940.

Nomenclature: DeFord, 1940.

Oil and gas: Denham, 1941; Fritz, 1940.

Paleontology: Newell, 1940.

Stratigraphy: Adams, H. H., 1943; Adams, J. E., 1935; Cheney, 1940; Dickey, 1940; Fritz, 1940; Giesey, 1941; Newell, 1940; Page, 1940; Roth, 1945; Woods, E. H., 1940.

Whitehorse-Cloudchief-Quartermaster: Sellards, 1933b.

Wichita group.

Nomenclature: DeFord, 1940, 1942; Romer, 1935.

Paleobotany: Darrah, 1938; White, C. D., 1936.

Paleontology: Bullard, 1936; Price, L. I., 1937; Romer, 1935, 1937, 1937a, 1945, 1946, 1947, 1950; Sawin, 1941.

Stratigraphy: Bullard, 1936; Dickey,

Permian—Continued

Strata—Continued

1940; Evans, G. L., 1941; Lee, W., 1938a; Nickell, C. O., 1938; Roth, 1942a; Sellards, 1933b.

Wildcat Creek shale.

Paleontology: Miller, A. K., 1947a; Moore, R. C., 1949.

Stratigraphy: Abilene Geol. Soc., 1949; Moore, R. C., 1949.

Wolfcamp formation: Shepherd, 1949.

Paleogeography: King, P. B., 1948.

Paleontology: Dunbar, 1937; Huang, 1936; Kellett, 1943; King, P. B., 1934, 1938b, 1942; King, R. E., 1942; Mohr, 1939; Moore, R. C., 1939, 1940b; Sellards, 1933b.

Stratigraphy: Cheney, 1940; King, P. B., 1934, 1938b, 1942, 1948; King, R. E., 1942; Mohr, 1939; Moore, R. C., 1946, 1949; Sellards, 1933b.

Word formation.

Correlation: Westoll, 1941.

Paleontology: Clifton, 1945; Dunbar, 1937, 1941; King, P. B., 1934, 1938b; Miller, A. K., 1945, 1945a; Mohr, 1939; Newell, 1938a; Sellards, 1933b; Sohn, 1950; Stoyanow, 1949; Westoll, 1941.

Stratigraphy: Clifton, 1945; King, P. B., 1934, 1938b; Mohr, 1939; Sellards, 1933b.

Yates sand: Hill, J., 1942.

Oil and gas: Donnelly, 1941.

Stratigraphy: Adams, J. E., 1935; Denham, 1941; Dickey, 1940; Ellison, 1948; Giesey, 1941; Page, 1940.

Yeso member, stratigraphy: Fritz, 1940.

Yoakum dolomite, stratigraphy: Fritz, 1940.

Stratigraphic problems: Anderson, G. E., 1933.

Structural features: Cheney, 1940; King, P. B., 1935.

Stylolites: Stockdale, 1936.

Subdivisions: Cheney, 1940.

Underground position: Sellards, 1933b.

Permian basin, west Texas. *See also* Central Basin Platform; comprising counties; Midland basin; West Texas. Logan, L. J., 1950; Sellards, 1935c; Sheldon, W., 1940; Weissenborn, 1948a.

Correlation chart: Roth, 1945.

Cross sections: King, R. E., 1942; Roth, 1942a; West Texas Geol. Soc., 1949.

Dolomite: Atkinson, B., 1948; Jones, T. S., 1944.

Geothermal data: Birch, 1945.

Limestone: Bybee, 1938a; Conley, J. N., 1949;

Conselman, 1948.

Maps.

Geologic: Roth, 1942a.

Isopach: Conley, J. N., 1949; Cunningham, 1935.

Micrologging: Morazzani, 1950.

Oil and gas. *See* Oil and gas, general areas.

Oil field waters: Berger, 1934, 1944.

Paleogeography: Hills, 1942, 1948; Roth, 1942a.

Porosity of strata: Jones, T. S., 1944; Lehnhard, 1944.

Potash: Conley, J. E., 1944; Cunningham, 1935; Davidson, 1934; Mansfield, 1933, 1935; Smith, H. I., 1938.

Progress in geologic knowledge of: Deussen, 1936.

Reefs: Conley, J. N., 1949; Lloyd, 1933, 1938.

Salt. *See* Salt.

Permian basin—Continued

- Sedimentation: Adams, J. E., 1944b.
 Stratigraphy: Adams, J. E., 1935; DeFord, 1937; King, R. E., 1942; Kinkel, 1936; Lang, W. B., 1939; Lewis, F. E., 1941; Mansfield, 1937; Roth, 1942a; West Texas Geol. Soc., 1949.
 Petrified wood. *See* Silicified wood.
 Petrography. *See also* specific strata and rocks of geologic systems.
 Aggregates, dam construction: Holland, W. Y., 1936, 1937.
 Barrilla Mountains, Trans-Pecos Texas: Eifler, 1950.
 Big Bend, Brewster County: Lonsdale, 1949a.
 Buck Hill area, Brewster County: Goldich, 1949.
 Cretaceous conglomerates, Llano area: Damon, 1940.
 Ellenburger strata: Cloud, 1948b; Crowley, 1945.
 Hilbig oil field, Bastrop County: Smiser, 1935.
 Marathon region: King, P. B., 1938b.
 Mitre Peak area, Trans-Pecos Texas: Ives, R. L., 1941.
 Terlingua-Solitario area: Lonsdale, 1940a.
 Tertiary strata, Gulf Coastal area: Halbouty, M. T., 1936a; Lonsdale, 1935, 1937.
 Petroleum. *See* Oil and gas.
 Pettet limestone. *See* Cretaceous strata.
 Pettus sand. *See* Tertiary strata and rocks.
 Phosphate: Baker, C. L., 1935b; Jenke, 1948b; Sellards, 1946b; Stephenson, L. W., 1937a.
 Phyllite. *See* Metamorphic rocks.
 Phyllopoda. *See* Paleontology.
 Physiography. *See* Geomorphology.
 Pierce Canyon red beds. *See* Permian strata; Triassic strata.
 Pillar Bluff limestone. *See* Devonian strata.
 Pilot Knob, Travis County: Cuyler, 1940a; Durham, 1949; Moody, 1949.
 Pine Bluff zone. *See* Cretaceous strata.
 Pinery limestone. *See* Permian strata.
 Pisces. *See* Paleontology.
 Pisgah member. *See* Tertiary strata and rocks.
 Pittsburg sandstone. *See* Cretaceous strata.
 Placid shale. *See* Pennsylvanian strata.
 Plainview basin, High Plains. *See also* Palo Duro basin.
 Geophysics: Harvey, W. P., 1950.
 Paleogeology: Roth, 1950.
 Pleistocene series. *See* Quaternary strata and deposits.
 Pliocene series. *See* Tertiary strata and rocks.
 Point Peak shale. *See* Cambrian strata.
 Polished rocks. *See* Frosting, polishing, and faceting.
 Polk County.
 Clay (bentonite): Evans, G. L., 1941a; Shafer, 1942.
 Geophysics: Eby, 1935; Rosai'e, 1938.
 Ground water: Sundstrom, 1948.
 Oil and gas. *See also* Goodrich, Livingston, Schwab, and Segno fields under Oil and gas.
 Williams, N., 1933b.
 Paleontology: Evans, G. L., 1941a; McAnulty, 1941a; Sellards, 1940f.
 Peat: Evans, G. L., 1941a; Shafer, 1941.
 Rice sand: Evans, G. L., 1941a; Shafer, 1942.
 Soil survey: Smith, H. M., 1935.
 Volcanic ash: Shafer, 1942.
 Well records: Rinehart, 1942; Sundstrom, 1948.
 Pollen profiles. *See* Paleobotany.
 Polydiexodina zone. *See* Permian strata.

- Polyhalite. *See* Potash; Evaporites.
 Pontotoc group. *See* Pennsylvanian strata.
 Porifera. *See* Paleontology.
 Portland cement. *See* Cement and lime.
 Posideon shale. *See* Pennsylvanian strata.
 Post-Triassic sediments, west Texas: Dickey, 1940.
 Potamides matsoni zone. *See* Tertiary strata and rocks.
 Potash (including carnallite, polyhalite, langbeinite, and sylvite). Adams, J. E., 1944a; Anonymous, 1934; Conley, J. E., 1944; Cunningham, 1935, 1936; Davidson, 1934; Delacote, 1934; Harley, 1949; Hayes, E. P., 1933; Johnson, B. L., 1944; Kinney, 1948e; Kroenlein, 1939; Lang, W. B., 1935; Mansfield, 1933, 1935; Schoch, 1935; Sellards, 1940b, 1946b; Smith, H. L., 1933, 1938; Woods, A. E., 1943.
 Potash lakes. *See* Alkali lakes.
 Potato Hill andesite. *See* Tertiary strata and rocks.
 Potter County.
 Dolomite: Weitz, 1942.
 Ground water: Alexander, W. H., 1946; Broadhurst, 1949; Texas State Bd. Water Engrs.; Wyatt, 1935.
 Helium: Baden, M. W., 1945; Blau, 1940; Oil and Gas Jour., 1937j.
 Oil and gas: Rogatz, 1939b.
 Paleontology: Case, E. C., 1934; Wilson, J. A., 1941.
 Soil survey: Templin, 1934.
 Stratigraphy: Warren, 1946a.
 Stylolites in gypsum: Stockdale, 1936.
 Well records: Alexander, W. H., 1946; Broadhurst, 1949; Texas State Bd. Water Engrs.
 Poultry grit (granite): Chelf, 1941b.
 Powwow conglomerate. *See* Permian strata.
 Precambrian. *See also* Basement rocks.
 Age determination, Iron Mountain magnetite: Hurley, 1943.
 Buried surface: Imlay, 1944; Moss, 1936; Sellards, 1933b.
 Deformational movements: Sellards, 1935c.
 Field trips: Barnes, V. E., 1940h; Plummer, F. B., 1939a; West Texas Geol. Soc., 1939.
 Rocks.
 Allamore limestone, stratigraphy: King, P. B., 1940.
 Big Branch gneiss: Barnes, V. E., 1946a.
 Carrizo Mountain schist: King, P. B., 1940; Sellards, 1933b.
 General discussion: Barnes, V. E., 1936b, 1947a; Billings, 1934; Ellison, 1948; Sellards, 1933b, 1934.
 Hazel sandstone: King, P. B., 1940.
 Lanoria quartzite: Keyes, 1941a, 1941b; Sellards, 1933b.
 Millican formation: Sellards, 1933b.
 Packsaddle schist: McMillan, 1949, 1949b; Sellards, 1933b.
 Building stone: Barnes, V. E., 1936b.
 Graphite: Barnes, V. E., 1940i.
 Iron ore: Barnes, V. E., 1949.
 Serpentine: Barnes, V. E., 1950.
 Soapstone: Barnes, V. E., 1942b.
 Vermiculite: McMillan, 1949.
 Quartzites, west Texas: Keyes, 1940a.
 Sedimentary amphibolites: Flawn, 1950.
 Valley Spring gneiss: McMillan, 1949, 1949b; Sellards, 1933b.
 Analyses: Barnes, V. E., 1940h, 1943b.

Precambrian—Continued

Rocks—Continued

Valley Spring gneiss—Continued

Building stone: Barnes, V. E., 1936b.

Fluorite: Barnes, V. E., 1943b.

Iron ore: Barnes, V. E., 1949; U. S. Bur. Mines, 1944.

Serpentine: Barnes, V. E., 1950.

Vermiculite: McMillan, 1949.

Van Horn sandstone: King, P. B., 1940.

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Strata and deposits—Continued

Blanco beds—Continued

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Quaternary—Continued

Strata and deposits—Continued

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Queen sandstone. *See* Permian strata.

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Quinn clay. *See* Pennsylvanian strata.

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 Paleontology: Evans, G. L., 1941a; McNulty, 1941, 1941a.
 Stratigraphy: Roth, 1937.
 Stratigraphy. *See* general areas; specific counties; strata of geologic systems.
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 Strawn group. *See* Pennsylvanian strata.
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 Canyons: Schoffelmayer, 1941.

Streams—Continued

Nueces River—Continued

Stream flow: Ellsworth, 1939.

Terraces: Price, W. A., 1933.

Pease River, analysis of water: Collins, 1944.

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Analyses of water: Collins, 1944.

Basin. *See* Pecos River basin.

Sedimentation rate: Brown, C. B., 1945.

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Red River, stream flow: Ellsworth, 1939.

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Stream flow: Ellsworth, 1939.

Structure: King, P. B., 1935.

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Stream flow: Ellsworth, 1939.

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Stribling formation. *See* Devonian strata.Stromatolites. *See* Paleobotany.Stromatoporoidea. *See* Paleontology.Strontium. *See* Celestite.Structure. *See also* general and specific areas; specific counties.

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Sulfur earth. *See* Acidic sulfur earth.Surface water. *See* Streams.

Sutton County.

Ground water: Broadhurst, 1949.

Well records: Broadhurst, 1949.

Swisher County.

Clay, filtering: Evans, G. L., 1942a.

Ground water: Broadhurst, 1949; Texas State

Swisher County—Continued

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Meteorite: Barnes, V. E., 1940a.

Well records: Texas State Bd. Water Engrs.

Sycamore sand. *See* Cretaceous strata.Sylvite. *See* Potash; Evaporites.Tabor member. *See* Tertiary strata and rocks.Tahoka clay. *See* Quaternary strata and deposits.Talc. *See also* Soapstone. Baker, C. L., 1935c; Evans, G. L., 1941a.Tanco-Luling-Mexia fault system. *See* Faults and fractures.Talpa limestone. *See* Permian strata.Tansill formation. *See* Permian strata.Tanyard formation. *See* Ordovician strata.

Tarrant County.

Alunite: Stephenson, L. W., 1946a.

Asphalt: Stenzel, 1948b.

Biostratigraphic relations: Lozo, 1944.

Concretions, Woodbine: Loving, 1944.

Geophysics: Beers, 1940.

Ground water: George, W. O., 1942; Sundstrom, 1949.

Paleontology: Cushman, 1936c; Gray, 1949; Loeblich, 1941; Lozo, 1944; Lynch, 1938.

Sands, molding: Univ. Texas, Bur. Econ. Geology, 1944.

Stratigraphy: Gray, 1949; Thompson, S. A., 1935.

Well records: George, W. O., 1942; Sundstrom, 1949.

Tarrant formation. *See* Cretaceous strata.Tascotal formation. *See* Tertiary strata and rocks.

Taylor County.

Anthropology: Ray, 1948.

Barite: Evans, G. L., 1946a.

Field trip: Scott, G., 1941.

Geothermal data: Barnes, V. E., 1946d.

Ground water: Sundstrom, 1949; Texas State Bd. Water Engrs.

Map, geologic: Meyers, 1937a.

Oil and gas. *See* Gibson, Hogan, Ingram, Murphy, Reddin, Reidenbach, Riney, and Wimberly fields under Oil and gas.

Paleobotany: Wilson, J. A., 1948b.

Paleontology: Bryan, K., 1938; Evans, G. L., 1941a; McAnulty, 1941a; Mathews, A. A. L., 1936; Ray, 1942a, 1948; Sellards, 1940f; Wilson, J. A., 1948b.

Sedimentation: Ray, 1948.

Well records: Texas State Bd. Water Engrs.

Taylor marl. *See* Cretaceous strata.Tecovas formation. *See* Triassic strata.Tectonics. *See* Structure.Tehuacana member. *See* Tertiary strata and rocks.

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Telluric currents. *See* Geophysics.Temperatures (earth). *See* Geothermal data.Templeton member. *See* Cretaceous strata.

Terlingua arch, Brewster County: Adkins, 1933a.

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Analcite: Lonsdale, 1940.

Faults: Baker, C. L., 1935a; Thompson, G. A., 1950.

Foraminiferal-analcite shale: Milton, 1936.

Igneous rocks: Lonsdale, 1940, 1940a; Ross, 1937.

Maps, geologic: Lonsdale, 1940a; Thompson, G. A., 1950.

Mercury minerals: Baker, C. L., 1935b; Duncan, 1937; Evans, A. M., 1947; Johnson, J. H., 1943, 1946a; Ross, 1934, 1935, 1935a, 1941,

Terlingua district—Continued

1942, 1943; Yates, 1943, 1943a, 1944, 1944a, 1949.

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Sphenolith: Ross, 1935a, 1941.

Stratigraphy: Ross, 1935a, 1941.

Structure: Ross, 1935a, 1941; Thompson, G. A., 1950.

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Terraces (stream). *See also* Quaternary strata and deposits; specific counties. Cloud, 1948b; Dallas Petroleum Geologists, 1941; Damon, 1940a; Evans, G. L., 1936, 1939, 1941, 1941a, 1941b, 1942a; Hatch, 1936; Kelsey, 1935; King, P. B., 1948; Mathis, 1944; Metcalf, 1940; Nickell, C. O., 1936, 1941; Parkinson, 1946; Pattillo, 1940; Plummer, F. B., 1933b; Price, W. A., 1933; Ray, 1943a, 1945; Renick, 1936; Richards, A., 1948; Sayles, 1935; Sellards, 1935, 1940d, 1941b; Shuler, 1935; Stenzel, 1939a; Stovall, J. W., 1950; Weeks, 1933, 1940, 1941, 1945; Witte, 1943.

Terrell arch: Adkins, 1933a.

Terrell County. *See also* Fort Lancaster platform; Terrell arch.

Caves: Jackson, 1948.

Ground water: Broadhurst, 1949.

Maps, geologic: Darton, 1933; Evans, G. L., 1945.

Meteorite: Barnes, V. E., 1940a.

Soils: Carter, W. T., 1934.

Well records: Broadhurst, 1949.

Terry County.

Cross section: Ellison, 1950.

Ground water: Texas State Bd. Water Engrs.

Map, geologic: Evans, G. L., 1945.

Meteorite: Barnes, V. E., 1940a.

Oil and gas. *See also* Adair, Slaughter, and Wellman fields under Oil and gas. Ingalls, 1950b.

Reefs: Fagin, 1950b; Oil and Gas Jour., 1950d.

Well records: Texas State Bd. Water Engrs.

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Boundaries: Elias, 1948; Scott, G., 1940d.

Classification: Plummer, F. B., 1933, 1933b.

Correlations: Alexander, C. I., 1935; Applin, E. R., 1934; Blanpied, 1939; Bowling, 1933; De Beck, 1948; Murray, G. E., 1945; Philpott, 1949; Roy, 1941; Shimer, 1934; Stenzel, 1936c; Todd, 1940.

Datum planes for contouring: Houston Geol. Soc., 1939.

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Jacksonian stage, time and time-rock unit: Murray, G. E., 1950.

Nomenclature: Israelsky, 1949.

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Paleogeography. *See* Paleogeography.

Paleontology. *See* Paleontology and *also* Strata and rocks, below.

Petrography. *See* Petrography and *also* Strata and rocks, below.

Reefs. *See* Reefs.

Tertiary—Continued

Strata and rocks.

Agua Verde shale, stratigraphy: Patterson, 1942.

Alamo sandstone, stratigraphy: Kane, 1935.

Alberca sandstone, stratigraphy: Kane, 1935.

Anahuac formation.

Paleontology: Beckelhymer, 1946; Cushman, 1945; Ellisor, 1944.

Stratigraphy: Allison, 1946; Beckelhymer, 1946; Ellisor, 1944.

Bedias sandstone.

Paleontology: Renick, 1936.

Stratigraphy: Renick, 1936.

Bennview sands, oil and gas: Bauernschmidt, 1944.

Bigfoot member.

Oil and gas: Merritt, 1935.

Stratigraphy: Lonsdale, 1937; Wynd, 1944a.

Bridwell formation.

Paleontology: Evans, G. L., 1949.

Stratigraphy: Evans, G. L., 1949.

Bryan sandstone, stratigraphy: Harris, Geo. D., 1941; Mathews, A. A. L., 1950.

Bucatunna clay, stratigraphy: Cooke, C. W., 1935.

Buck Hill volcanic series.

Paleontology: Goldich, 1949.

Stratigraphy: Goldich, 1948, 1949, 1949a.

Burkville beds, nomenclature: Ellisor, 1936.

Butcherknife basalt.

Description: Goldich, 1949.

Petrography: Goldich, 1949.

Butler clay, stratigraphy: Plummer, F. B., 1933b.

Byram marl, stratigraphy: Cooke, C. W., 1935.

Caddell clay.

Paleontology: Ellisor, 1933; Gravell, 1936; Harris, R. W., 1936a; Plummer, F. B., 1933b; Renick, 1936.

Stratigraphy: Cooper, H. H., 1937; Ellisor, 1933; Harris, Geo. D., 1941; Meyer, 1939; Plummer, F. B., 1933b; Renick, 1936.

Caldwell Knob member.

Paleontology: Beckman, 1943.

Stratigraphy: Beckman, 1943.

Calliham sand, stratigraphy: Ellisor, 1933.

Calvert Bluff clay beds, stratigraphy: Plummer, F. B., 1933b.

Carlos sandstone, stratigraphy: Renick, 1936.

Carrizo sand: Morgan, A., 1940; Schuchert, 1935a.

Ground water: 1943; Dake, C. L., 1934;

Guyton, 1942; Lonsdale, 1935, 1937;

Plummer, F. B., 1946; Rasmussen,

1947; Sayre, 1936; Sundstrom, 1950;

Turner, S. F., 1935.

Oil and gas: Merritt, 1935.

Paleobotany: Parks, 1936a.

Peat: Chelf, 1941a; Potzger, 1947.

Stratigraphy: Broadhurst, 1945, 1950a;

Denison, 1933; Echols, 1948; Harris,

Geo. D., 1941; Kane, 1935; Liddle,

1937; Lonsdale, 1935, 1937; McCam-

mon, 1942a; Murray, G. E., 1945;

Plummer, F. B., 1933b; Sayre, 1936;

Stenzel, 1939a, 1941, 1950; Wynd,

1944a.

Tertiary—Continued

Strata and rocks—Continued

- Carrizo-Newby contact: Stenzel, 1950.
 Carrizo-Wilcox (undifferentiated): Allison, 1946.
 Catahoula formation: Schuchert, 1935a.
 Clay bleaching: King, P. B., 1940a.
 Correlation: Bowling, 1933.
 Ground water: Lonsdale, 1937; Sayre, 1936a.
 Paleobotany: Plummer, F. B., 1933b.
 Paleontology: Bauernschmidt, 1944; Bowling, 1933; Brucks, 1935; MacNeil, 1935.
 Oil and gas: Bauernschmidt, 1944; Clayton, J. M., 1938; Price, W. A., 1936.
 Rice sands: Evans, G. L., 1941a.
 Stratigraphy: Alexander, W. H., 1947; Allison, 1946; Bauernschmidt, 1944; Beckelhymer, 1946; Bowling, 1933; Brucks, 1935; Cooke, C. W., 1935; Cooper, H. H., 1937; Deussen, 1939; Lonsdale, 1935, 1937; Martyn, 1941; Meyer, 1939; Plummer, F. B., 1933b; Renick, 1936; Sayre, 1936a; Weeks, 1933, 1937.
 Subdivisions: Fish, 1939.
 Chernosky sand, oil and gas: Cooper, H. H., 1937.
 Chickasawhay marl.
 Paleontology: Cooke, C. W., 1935.
 Stratigraphy: Cooke, C. W., 1935.
 Chita sand, stratigraphy: Plummer, F. B., 1933b; Renick, 1936.
 Chusa member, stratigraphy: Cooper, H. H., 1937; Plummer, F. B., 1933b; Sayre, 1936a.
 Citronelle group.
 Paleontology: Plummer, F. B., 1933b.
 Stratigraphy: Plummer, F. B., 1933b.
 Claiborne group: Schuchert, 1935a.
 Correlation: Applin, E. R., 1934; Stenzel, 1936c.
 Iron ore: Baker, C. L., 1935b.
 Oil and gas: Owens, 1935.
 Paleobotany: Atkinson, W. E., 1937.
 Paleontology: Gardner, J. A., 1945; Harris, Gilbert D., 1937; Harris, R. W., 1936, 1936a; Howe, 1934; Israel-sky, 1935; Martin, J. L., 1939; Mon-sour, 1944; Murray, G. E., 1938, 1942; Palmer, 1937, 1944; Plummer, F. B., 1933b; Plummer, H. J., 1936a; Row-land, 1936; Stenzel, 1935a; Stephen-son, M. B., 1942, 1942a; Turner, F. E., 1938.
 Stratigraphy: Baker, C. L., 1935b; Broadhurst, 1950a; Kane, 1935; Meyer, 1939; Plummer, F. B., 1933b; Sten-zel, 1935a, 1936c, 1939a.
 Zonation: Israelsky, 1935.
 Cockfield formation: Mathews, A. A. L., 1950; Thompson, W. C., 1949.
 Oil and gas: Cooper, H. H., 1938; Deus-sen, 1934; Williams, N., 1933a, 1933b.
 Paleontology: Cushman, 1933a; Harris, R. W., 1936a.
 Selenite: Broughton, 1934.
 Stratigraphy: Cooper, H. H., 1937; Kane, 1935; Wynd, 1944a.
 Cole sand, oil and gas: Cooper, H. H., 1937.
 Conroe sand: Zavoico, 1935.
 Cook Mountain formation: Merritt, 1935; Schuchert, 1935a; Thompson, W. C., 1949.

Tertiary—Continued

Strata and rocks—Continued

- Cook Mountain formation—Continued
 Clay (bentonite): Chelf, 1942.
 Depositional history: Patterson, 1942.
 Ground water: Lonsdale, 1935, 1937.
 Oil and gas: Deussen, 1934.
 Paleontology: Beckelhymer, 1946; Sten-zel, 1945, 1945a; Stephenson, M. B., 1945.
 Stratigraphy: Allison, 1946; Cooper, H. H., 1937; Kane, 1935; Lonsdale, 1935, 1937; Patterson, 1942; Stenzel, 1940f; Wynd, 1944a.
 Cottonwood Spring basalt: Goldich, 1948, 1949a.
 Description, petrography: Goldich, 1949.
 Couch formation.
 Paleontology: Evans, G. L., 1949.
 Stratigraphy: Evans, G. L., 1949.
 Creola beds, nomenclature: Stenzel, 1940i.
 Crockett member.
 Paleontology: Plummer, F. B., 1933b; Stenzel, 1938, 1934, 1939a.
 Stratigraphy: Harris, Geo. D., 1941; McCammon, 1942a; Plummer, F. B., 1933b; Stenzel, 1939a.
 Crossen trachyte: Goldich, 1949a.
 Description, petrography: Goldich, 1949.
 Cuero formation, stratigraphy: Weeks, 1945a.
 Davis sand: Cascey, 1941.
 Dilworth sand.
 Paleontology: Renick, 1936.
 Stratigraphy: Ellisor, 1933; Renick, 1936.
 Discorbis zone.
 Oil and gas: Deussen, 1934.
 Paleontology: Brucks, 1935; Garrett, J. B., 1939; Stephenson, M. B., 1944.
 Stratigraphy: Bauernschmidt, 1944; Brucks, 1935.
 Dubose sands and clays.
 Paleontology: Ellisor, 1933.
 Stratigraphy: Ellisor, 1933.
 Duff formation, description: Goldich, 1948, 1949, 1949a.
 Dunlap Quarry sandstone, stratigraphy: Renick, 1936.
 Eocene series.
 Correlation: Applin, E. R., 1934; Todd, 1940.
 Ground water: White, W. N., 1941.
 Oil and gas: Barton, D. C., 1934; Deus-sen, 1934; Ingalls, 1950d; Oil and Gas Jour., 1937i, 1943; Seismograph Serv-ice Corp., 1944; Thomas, P., 1938.
 Paleobotany: Kirn, 1936; Parks, H. B., 1934.
 Paleontology: Cushman, 1933a, 1935a; Gardner, J. A., 1939a; Harris, R. W., 1936a; McAnulty, 1941a; Stenzel, 1935, 1940a, 1940c, 1940d, 1943, 1943a, 1943b, 1943c, 1949.
 Sedimentation: Stenzel, 1940h, 1941a.
 Stratigraphy: Kane, 1935; Patterson, 1942.
 Structural geology: Kane, 1936.
 Volcanics: Jones, C. T., 1938.
 Falcon sandstone, stratigraphy: Patterson, 1942.
 Falls City shale.
 Paleontology: Ellisor, 1933.
 Stratigraphy: Ellisor, 1933.

Tertiary—Continued

Strata and rocks—Continued

Fant member, stratigraphy: Cooper, H. H., 1937; Plummer, F. B., 1933b; Sayre, 1936a.

Fashing clays.

Paleontology: Ellisor, 1933.

Stratigraphy: Ellisor, 1933.

Fayette sandstone: Schuchert, 1935a.

Clays, ceramic: Pence, 1949b.

Depositional history: Patterson, 1942.

Paleobotany: Parks, 1936a; Plummer, F. B., 1933b.

Paleontology: Patterson, 1942a; Plummer, F. B., 1933b.

Stratigraphy: Bowling, 1933; Harris, Geo. D., 1941; Kane, 1935; Patterson, 1942; Plummer, F. B., 1933b; Wynd, 1944a.

Fleming group: Schuchert, 1935a.

Oil and gas: Deussen, 1934.

Paleontology: Stenzel, 1944a; Taylor, E. H., 1943.

Stratigraphy: Allison, 1946; Beckelhymer, 1946; Brucks, 1935; Deussen, 1939; Doering, 1935; Ellisor, 1944; Meyer, 1939; Plummer, F. B., 1933b; Weeks, 1945a.

Forty-one-A sand, oil and gas: Bauernschmidt, 1944.

Four Way Ranch sand, oil and gas: Bauernschmidt, 1944.

Frazier sand, mineral composition: Casey, 1941.

Frio formation: Schuchert, 1935a.

Bibliography: Israelsky, 1940.

Brines: Jessen, 1944; Rolshausen, 1943.

Ground water: Sayre, 1936a.

Nomenclature: Israelsky, 1940.

Oil and gas: Bauernschmidt, 1944; Oil Weekly, 1935; Price, W. A., 1936; Singleton, 1941; Thompson, W. C., 1949.

Paleobotany: Barton, H. M., 1948.

Paleontology: Brucks, 1935; Ellisor, 1933; Harris, R. W., 1936a; Reedy, 1949; Rolshausen, 1940.

Radioactivity measurements: Bell, K. G., 1940.

Stratigraphy: Allison, 1946; Bauernschmidt, 1944; Beckelhymer, 1946; Brucks, 1935; Cooper, H. H., 1937; Ellisor, 1933; Fish, 1939; Lonsdale, 1937; Martyn, 1941; Meyer, 1939; Plummer, F. B., 1933b; Reedy, 1949; Wynd, 1944a.

Zonation: Reedy, 1948, 1949.

Frio-Vicksburg, oil and gas: Clayton, J. M., 1938.

Garcono sandstone, stratigraphy: Patterson, 1942.

General stratigraphy: Critz, 1946; Deussen, 1936b; Israelsky, 1933; Kornfeld, J. A., 1936; King, P. B., 1935; King, R. E., 1946; Leyendecker, 1937; Tucker, R., 1939; Warner, 1939; Williams, N., 1939.

General, volcanic: Gillerman, 1946; Havard, 1950; Maley, 1938.

Classcock sand, oil and gas: Bauernschmidt, 1944.

Goliad formation.

Ground water: Livingston, 1936a; Lonsdale, 1937; Sayre, 1936a; Turner, S. F., 1935.

Tertiary—Continued

Strata and rocks—Continued

Goliad formation—Continued

Paleontology: Gregory, J. T., 1940; Plummer, F. B., 1933b; Sellards, 1940e.

Stratigraphy: Alexander, W. H., 1947, 1950; Cooper, H. H., 1937; Doering, 1935; Lonsdale, 1937; Plummer, F. B., 1933b; Sayre, 1936a; Weeks, 1945a.

Goliad-Fleming, oil and gas: Price, W. A., 1936.

Gorgora shale, stratigraphy: Patterson, 1942.

Government Wells sand, oil and gas: Cooper, H. H., 1937.

Greta (*Heterostegina*) sand, oil and gas: Clayton, J. M., 1938.

Gueydan group: Schuchert, 1935a.

Stratigraphy: Plummer, F. B., 1933b.

Hackberry zone (post-Vicksburg), paleontology: Garrett, J. B., 1938; Kornfeld, M. M., 1940.

Hall Summit formation, stratigraphy: Murray, G. E., 1945.

Hemphill beds, paleontology: Gregory, J. T., 1945a; Stirtton, 1936a, 1938a.

Heterostegina zone. See also Greta sand.

Distribution: Hough, 1948.

Oil and gas: Deussen, 1934.

Paleontology: Bauernschmidt, 1944; Brucks, 1935; Garrett, J. B., 1939; Gravell, 1937; Stephenson, M. B., 1944.

Stratigraphy: Bauernschmidt, 1944; Brucks, 1935.

Hockley formation, stratigraphy: Cooper, H. H., 1935.

Hockley Mound sand, stratigraphy: Doering, 1935.

Huelster formation.

Paleobotany: Eifler, 1950.

Stratigraphy: Eifler, 1950.

Hurricane lentil.

Clay (bentonite): Webb, 1942.

Paleontology: Stenzel, 1940f; Webb, 1942.

Stratigraphy: Stenzel, 1940f; Webb, 1942.

Indio formation.

Ground water: Sayre, 1936.

Oil and gas: Merritt, 1935.

Stratigraphy: Kane, 1935; Lonsdale, 1935, 1937; McCallum, 1933; Sayre, 1936; Wynd, 1944a.

Jackson formation: Mathews, A. A. L., 1950; Short, R. T., 1935; Thompson, W. C., 1949.

Clay (bentonite, ceramic): Chelf, 1942; King, P. B., 1940a; Pence, 1949.

Ground water: Sayre, 1936a.

Oil and gas: Cooper, H. H., 1937, 1938; Deussen, 1934.

Paleobotany: Ball, 1939.

Paleontology: Beckelhymer, 1946; Cushman, 1935; Deussen, 1939; Ellisor, 1933; Gardner, J. A., 1939, 1945; Harris, Gilbert D., 1946; Harris, R. W., 1936a; Monsour, 1944; Plummer, F. B., 1933b; Renick, 1936; Rowland, 1936.

Sedimentation: Cooper, H. H., 1937; Daugherty, 1943.

Stratigraphy: Allison, 1946; Beckelhymer, 1946; Cooper, H. H., 1935, 1937; Daugherty, 1943; Deussen, 1939; Elli-

Tertiary—Continued

Strata and rocks—Continued

Jackson formation—Continued

sor, 1933; Gardner, J. A., 1939; Harris, Geo. D., 1941; Harris, Gilbert D., 1946; Kane, 1935; Lonsdale, 1935, 1937; McCammon, 1942a; Meyer, 1939; Plummer, F. B., 1933b; Renick, 1936.

Jeff conglomerate, stratigraphy: Eifler, 1950.

José shale, stratigraphy: Patterson, 1942.

Kerens member: Alexander, C. I., 1935; Harris, Geo. D., 1941; Plummer, F. B., 1933b.

Kincaid formation.

Nomenclature: Gardner, J. A., 1933; Keyes, 1933b.

Paleontology: Gardner, J. A., 1935; Plummer, F. B., 1933b; Plummer, H. J., 1934.

Stratigraphy: Gardner, J. A., 1933, 1935; Plummer, F. B., 1933b; Scott, G., 1934.

Labahia member, stratigraphy: Plummer, F. B., 1933b.

Lagarto Creek beds, stratigraphy: Plummer, F. B., 1933b.

Lagarto formation: Schuchert, 1935a.

Ground water: Foster, M. D., 1939; Sayre, 1936a.

Paleontology: Plummer, F. B., 1933b. Stratigraphy: Alexander, W. H., 1947, 1950; Brucks, 1935; Johnson, E. L., 1933; Plummer, F. B., 1933b; Weeks, 1933, 1937; Wynd, 1944a.

Landrum shale.

Paleontology: Kellogg, 1936; Stenzel, 1939a.

Stratigraphy: Stenzel, 1939a, 1940f.

Lapara sand, stratigraphy: Plummer, F. B., 1933b.

La Perla shale, stratigraphy: Patterson, 1942.

Laredo formation.

Nomenclature: Gardner, J. A., 1933.

Paleontology: Gardner, J. A., 1945.

Stratigraphy: Gardner, J. A., 1938.

Lipan member, stratigraphy: Plummer, F. B., 1933b.

Littig clauconite, stratigraphy: Plummer, F. B., 1933b.

Logansport formation, stratigraphy: Murray, G. E., 1945.

Loggy Bayou member: Murray, G. E., 1945.

Loma Blanca tongue, stratigraphy: Patterson, 1942.

Loma Novia sand, oil and gas: Cooper, H. H., 1937.

Lopez sand, oil and gas: Best, 1941.

Los Arrieros shale, stratigraphy: Patterson, 1942.

Los Guerras sandstone, stratigraphy: Kane, 1935.

McCutcheon volcanic series: Eifler, 1950.

McElroy member.

Paleontology: Ellisor, 1933; Harris, R. W., 1936a; Plummer, F. B., 1933b.

Stratigraphy: Cooper, H. H., 1937; Ellisor, 1933; Meyer, 1939; Plummer, F. B., 1933b.

McMurtry sand, mineral composition: Casey, 1941.

Manning beds.

Concretions: Burt, 1934.

Tertiary—Continued

Strata and rocks—Continued

Manning beds—Continued

Paleobotany: Renick, 1936.

Paleontology: Ellisor, 1933; Renick, 1936.

Stratigraphy: Ellisor, 1933; Harris, Geo. D., 1941; Renick, 1936.

Marginulina zone.

Oil and gas: Bauernschmidt, 1944; Deussen, 1934.

Paleontology: Bauernschmidt, 1944; Brucks, 1935; Garrett, J. B., 1939; Stephenson, M. B., 1944.

Stratigraphy: Bauernschmidt, 1944; Brucks, 1935.

Marquez shale, stratigraphy: McCammon, 1942a; Stenzel, 1939a.

Marthasville formation, stratigraphy: Murray, G. E., 1945.

Menefee sand, oil and gas: Bauernschmidt, 1944.

Mexia clay.

Correlation: Alexander, C. I., 1935.

Paleontology: Plummer, H. J., 1934.

Stratigraphy: Plummer, F. B., 1933b.

Middle Tertiary, paleontology: Garrett, J. B., 1937; Stephenson, M. B., 1946a.

Midway group: Schuchert, 1935a.

Age: Scott, G., 1934, 1940d.

Clays, ceramic: King, P. B., 1940a; Pence, 1949b.

Ground water: Rasmussen, 1947.

Oil and gas: Merritt, 1935.

Paleobotany: Parks, 1936.

Paleontology: Cushman, 1940c; Gardner, J. A., 1935, 1939, 1941, 1945; Leriche, 1942; Murray, G. E., 1942; Plummer, F. B., 1933b; Plummer, H. J., 1934, 1936a; Quesenberry, 1936; Scott, G., 1934, 1940d; Vaughn, 1935.

Stratigraphy: Broadhurst, 1950a; Denison, 1933; Gardner, J. A., 1935, 1939; Kane, 1935; Liddle, 1937; McCallum, 1933; Murray, G. E., 1945; Plummer, F. B., 1933b; Sayre, 1936; Scott, G., 1934; Stenzel, 1939a; Wynd, 1944a.

Zonation: Quesenberry, 1936.

Mier sandstone, stratigraphy: Kane, 1935; Patterson, 1942.

Mint Springs member, paleontology: Harris, R. W., 1936a.

Miocene series.

Boundary: Cooke, 1939.

Ground water: Rose, 1943.

Oil and gas: Barton, D. C., 1934; Deussen, 1934; Halbouty, M. T., 1941; Oil and Gas Jour., 1943; Seismograph Service Corp., 1944.

Paleontology: Brucks, 1935; Gardner, J. A., 1940; Garrett, J. B., 1942, 1950; Hesse, 1933, 1943; McAnulty, 1941a; McLean, 1950; Stenzel, 1944d; Vanderpool, H. C., 1933a.

Stratigraphy: Brucks, 1935; Stenzel, 1944a.

Miocene or Pliocene, paleontology: MacNeil, 1938.

Mirando sand, oil and gas: Cooper, H. H., 1937.

Mitchell Mesa rhyolite: Goldich, 1948, 1949a. Description, petrography: Goldich, 1949.

Tertiary—Continued

Strata and rocks—Continued

Mitchell's Ferry beds.

Paleontology: Ellisor, 1933.

Stratigraphy: Ellisor, 1933.

Moody's Branch marl, paleontology: Gravel, 1935.

Mount Selman formation: Schuchert, 1935a.

Clay, ceramic: King, P. B., 1940a.

Depositional history: Patterson, 1942.

Ground water: Lonsdale, 1935; Rasmussen, 1947.

Oil and gas: Cooper, H. H., 1938; Deussen, 1934; Merritt, 1935.

"Redland belt": Chambers, W. T., 1941.

Stratigraphy: Allison, 1946; Broadhurst, 1950a; Cooper, H. H., 1937; Eckel, 1938; Kane, 1935; Lonsdale, 1935, 1937; Patterson, 1942; Wynd, 1944a.

Mount Tabor shale.

Paleontology: Stenzel, 1939a.

Stratigraphy: Stenzel, 1939a, 1940f.

Newby member: Stenzel, 1939a, 1950.

Lagoonal facies: Stenzel, 1948a.

Paleontology: Stenzel, 1948a.

Oakville sandstone: Schuchert, 1935a.

Ground water: Sayre, 1936a.

Oil and gas: Clayton, J. M., 1938; Price, W. A., 1936.

Paleontology: Bowling, 1933; Plummer, F. B., 1933b; Renick, 1936.

Stratigraphy: Alexander, W. H., 1947, 1950; Bowling, 1933; Brucks, 1935; Cooper, H. H., 1937; Fish, 1939; Johnston, E. L., 1933; Plummer, F. B., 1933b; Renick, 1936; Weeks, 1933, 1937, 1945a; Wynd, 1944a.

Ogallala formation: Morgan, A. M., 1942.

Algae reefs in caprock: Price, W. A., 1946a.

Caliche caprock correlations: Price, W. A., 1949a.

Field trip: Evans, G. L., 1949; Price, W. A., 1945b.

Ground water: Alexander, W. H., 1946; Barnes, J. R., 1949; Lang, J. W., 1945; Plummer, F. B., 1946; Theis, 1936; White, W. N., 1939a, 1946, 1948.

Paleontology: Johnston, C. S., 1938a, 1939; Stirton, 1936a, 1939.

Pliocene-Pleistocene boundary: Elias, 1948.

Stratigraphy: Lang, J. W., 1945.

O'Hern sand, oil and gas: Barnett, 1911; Cooper, H. H., 1937.

Oligocene series.

Boundary: Cooke, 1939.

Oil and gas: Barton, D. C., 1934; Deussen, 1934; Oil and Gas Jour., 1943; Seismograph Service Corp., 1944.

Paleontology: Cushman, 1944a, 1945; Harris, R. W., 1936a; McLean, 1950; Plummer, F. B., 1933b; Stenzel, 1935.

Stratigraphy: Deussen, 1939; Martyn, 1941; Plummer, F. B., 1933b; Waters, 1948; Wood, H. E., 1937.

Olmos sand, stratigraphy: Ellisor, 1933.

Onalaska clay, stratigraphy: Plummer, F. B., 1933b.

Palafox sandstone, stratigraphy: Kane, 1935.

Tertiary—Continued

Strata and rocks—Continued

Paleocene series: Ives, R. L., 1941.

Paleontology: Stenzel, 1940d, 1943, 1943b, 1943c.

Panhandle formation.

Paleontology: Plummer, F. B., 1933b.

Stratigraphy: Plummer, F. B., 1933b.

Pendleton formation.

Paleontology: Wasem, R., 1943.

Stratigraphy: Murray, G. E., 1945; Wasem, R., 1943.

Pettus sand, oil and gas: Cooper, H. H., 1938; Oil Weekly, 1934.

Pisgah member, stratigraphy: Gardner, J. A., 1935; Plummer, F. B., 1933b.

Pliocene series: Johnston, C. S., 1937c; Schuchert, 1935a.

Boundary, Pleistocene: Elias, 1948.

Ground water: Rose, 1943; Sauls, 1933.

Oil and gas: Oil and Gas Jour., 1943; Seismograph Service Corp., 1944.

Paleontology: Compton, L. V., 1934; Gazin, 1937; Hesse, 1940a; Johnston, C. S., 1937, 1937a, 1937c, 1937e, 1938, 1939, 1939a, 1941; McAnulty, 1941a; McLean, 1950; Miller, L. H., 1937; Stirton, 1936, 1939, 1940; VanderHoof, 1936.

Potamides *matsoni* zone, nomenclature: Ellisor, 1936.

Potato Hill andesite: Goldich, 1949a.

Description, petrography: Goldich, 1949.

Pruett formation.

Paleontology: Goldich, 1949.

Stratigraphy: Goldich, 1948, 1949, 1949a.

Puerto Colorado sandstone, stratigraphy: Kane, 1935.

Queen City sand: Morgan, A., 1940; Schuchert, 1935a.

Ground water: Broadhurst, 1943.

Oil mines: Mills, B., 1935c.

Stratigraphy: Broadhurst, 1945, 1950a; Denison, 1933; Eckel, 1938; Harris, Geo. D., 1941; Liddle, 1937; McCammon, 1942a; Patterson, 1942; Plummer, F. B., 1933b; Stenzel, 1939a.

Rawls basalt: Goldich, 1948, 1949a.

Red Bluff member.

Paleontology: Harris, R. W., 1936a.

Stratigraphy: Cooke, C. W., 1935.

Reklaw member: Morgan, A., 1940; Schuchert, 1935a.

Ground water: Broadhurst, 1943.

Paleontology: Plummer, F. B., 1933b; Stephenson, M. B., 1942a, 1944a.

Peat: Chelf, 1941a.

Stratigraphy: Broadhurst, 1945, 1950a; Denison, 1933; Eckel, 1938; Harris, Geo. D., 1941; Liddle, 1937; Plummer, F. B., 1933b; Stenzel, 1939a, 1950.

Resendez shale, stratigraphy: Patterson, 1942.

Rockdale formation: Schuchert, 1935a.

Clay, ceramic: Broman, 1936a.

Lignite: Selvig, 1950.

Paleobotany: Parks, 1936; Plummer, F. B., 1933b.

Paleontology: Beckman, 1943.

Sand, industrial: Hoeman, 1946.

Stratigraphy: Beckman, 1943; Harris,

Tertiary—Continued

Strata and rocks—Continued

- Geo. D., 1941; Plummer, F. B., 1933b, Stenzel, 1939a.
- Roma sandstone, stratigraphy: Kane, 1935; Patterson, 1942.
- Sabinetown formation: Schuchert, 1935a.
- Paleontology: Plummer, F. B., 1933b.
- Stratigraphy: Murray, G. E., 1945; Plummer, F. B., 1933b; Stenzel, 1939a.
- Salineno sandstone, stratigraphy: Kane, 1935; Patterson, 1942.
- Salt Mountain limestone, stratigraphy: Cooke, C. W., 1935.
- Sanchez sandstone, stratigraphy: Kane, 1935; Patterson, 1942.
- Santa Clara sandstone, stratigraphy: Kane, 1935.
- Saucito sandstone, stratigraphy: Kane, 1935.
- Seguin formation: Schuchert, 1935a.
- Paleontology: Beckman, 1943; Plummer, F. B., 1933b.
- Stratigraphy: Beckman, 1943; Harris, Geo. D., 1941; Plummer, F. B., 1933b; Stenzel, 1939a.
- Seven Springs formation, stratigraphy: Eifler, 1950.
- Sheep Canyon basalt: Goldich, 1949a.
- Description, petrography: Goldich, 1949.
- Simsboro sand.
- Industrial sand: Hoeman, 1945, 1946.
- Paleobotany: Parks, 1936.
- Stratigraphy: Plummer, F. B., 1933b.
- Sinton sand, oil and gas: Clayton, J. M., 1938.
- Soledad member, stratigraphy: Cooper, H. H., 1937; Plummer, F. B., 1933b.
- Solomon Creek member.
- Paleontology: Beckman, 1943.
- Stratigraphy: Beckman, 1943; Plummer, F. B., 1933b.
- Sparta-Crockett boundary: Stenzel, 1936b.
- Sparta sand.
- Ground water: Broadhurst, 1943; Guyton, 1945.
- Stratigraphy: Denison, 1933; Eckel, 1938; Harris, Geo. D., 1941; Plummer, F. B., 1933b; Stenzel, 1939a.
- Sparta-Wilcox. *See* Oil and gas, general areas.
- Spiller sand, stratigraphy: Stenzel, 1939a, 1940f.
- Star Mountain rhyolite: Eifler, 1950.
- Stone City beds.
- Nomenclature: Stenzel, 1936b.
- Stratigraphy: Harris, Geo. D., 1941; Stenzel, 1939a.
- Stone's Switch sand, stratigraphy: Ellisor, 1933.
- Tabor member, stratigraphy: Harris, Geo. D., 1941.
- Tascotal formation, stratigraphy: Goldich, 1943, 1949a.
- Tehuacana member, stratigraphy: Gardner, J. A., 1935; Plummer, F. B., 1933b; Scott, G., 1934.
- Textularia warreni* beds, stratigraphy: Meyer, 1939.
- Toney sands, oil and gas: Bauernschmidt, 1944.

Tertiary—Continued

Strata and rocks—Continued

- Tuffs of Green Valley.
- Paleontology: Fletcher, 1933.
- Stratigraphy: Fletcher, 1933.
- Two Mile member, stratigraphy: Harris, Geo. D., 1941.
- Tyus member.
- Paleontology: Stenzel, 1939a.
- Stratigraphy: Stenzel, 1939a.
- Uvalde deposits: Plummer, F. B., 1933b; Rasmussen, 1947; Sayre, 1936.
- Veleno member, stratigraphy: Patterson, 1942.
- Vicksburg group: Cooke, 1935; Schuchert, 1935a; Thompson, W. C., 1949.
- Oil and gas: Clayton, J. M., 1938; Wilson, A. N., 1941.
- Paleontology: Bauernschmidt, 1944; Ellisor, 1933; Harris, R. W., 1936a.
- Stratigraphy: Allison, 1946; Bauernschmidt, 1944; Beckelhymer, 1946.
- Villa Nueva sandstone, stratigraphy: Kane, 1935; Patterson, 1942.
- Ward sand, oil and gas: Bauernschmidt, 1944.
- Weches member: Morgan, A., 1940; Schuchert, 1935a; Stenzel, 1945a.
- Ground water: Broadhurst, 1943.
- Iron ore: Anderson, G. H., 1942; Eckel, 1935a, 1938; Evans, A. M., 1947b.
- Paleontology: Beckelhymer, 1946; Cushman, 1933a; Feray, 1941; Garrett, J. B., 1942a; Plummer, F. B., 1933b; Stenzel, 1934, 1939a; Stephenson, M. B., 1946; Sutton, 1939, 1940; Wells, 1934b.
- Soil: Chambers, W. T., 1941a.
- Stratigraphy: Beckelhymer, 1946; Denison, 1933; Eckel, 1935a, 1938; Harris, Geo. D., 1941; Kane, 1935; Liddle, 1937; Plummer, F. B., 1933b; Stenzel, 1939a.
- Wellborn sandstone.
- Paleontology: Ellisor, 1933; Renick, 1936.
- Stratigraphy: Ellisor, 1933; Harris, Geo. D., 1941; Renick, 1936.
- West sand, oil and gas: Bauernschmidt, 1944.
- Wheelock marl, stratigraphy: Harris, Geo. D., 1941; Stenzel, 1939a, 1940f.
- Whitsett formation.
- Paleobotany: Renick, 1936.
- Paleontology: Ellisor, 1933; Harris, R. W., 1936a; Plummer, F. B., 1933b; Renick, 1936.
- Stratigraphy: Cooper, H. H., 1937; Ellisor, 1933; Meyer, 1939; Plummer, F. B., 1933b; Renick, 1936.
- Wilcox group: Morgan A., 1940; Schuchert, 1935a; Todd, 1940a.
- Clays, ceramic: De Beck, 1948; King, P. B., 1940a; Pence, 1946, 1948, 1949b; Schoch, 1938a.
- Correlations: De Beck, 1948.
- Ground water: Broadhurst, 1943, 1945; Plummer, F. B., 1946; Rasmussen, 1947.
- Lignite: Selvig, 1950.
- Oil and gas: Casey, 1941a; Culbertson, 1940; Echols, 1948; Hanna, 1938a; McClain, 1947.
- Paleobotany: Ball, 1939; Berry, E. W.,

Tertiary—Continued

Strata and rocks—Continued

Wilcox group—Continued

1941; Parks, 1936a.

Paleontology: Gardner, J. A., 1939, 1945; Plummer, F. B., 1933b.

Stratigraphy: Beckelhymer, 1946; Broadhurst, 1950a; Claypool, 1933; Denison, 1933; Echols, 1948; Gardner, J. A., 1939; Kane, 1935; Liddle, 1937; Murray, G. E., 1945; Plummer, F. B., 1933b; Scott, G., 1934; Stenzel, 1939a, 1950.

Well records: Rinehart, 1942.

Willis sand.

Ground water: Foster, M. D., 1939.

Stratigraphy: Alexander, W. H., 1947, 1950; Allison, 1946; Beckelhymer, 1946; Doering, 1935; Meyer, 1939.

Structure: Doering, 1935.

Wills Point formation.

Paleontology: Beckman, 1943; Gardner, J. A., 1935; Plummer, F. B., 1933b; Stenzel, 1943d, 1944b.

Stratigraphy: Beckman, 1943; Gardner, J. A., 1935; Harris, Geo. D., 1941; Plummer, F. B., 1933b; Scott, G., 1934.

Wooley's Bluff clays.

Paleontology: Ellisor, 1933.

Stratigraphy: Ellisor, 1933.

Wortham aragonite lentil, stratigraphy: Plummer, F. B., 1933b.

Yegua formation: Mathews, A. A. L., 1950; Schuchert, 1935a.

Boundary and nomenclatorial problem: Stenzel, 1940i.

Clay: Chelf, 1942; King, P. B., 1940a.

Depositional history: Patterson, 1942.

Oil and gas: Casey, 1941; Colle, 1941; Cooper, H. H., 1938; Deussen, 1934; Thompson, W. C., 1949; Vittrup, 1947.

Paleobotany: Plummer, F. B., 1933b.

Paleontology: Cushman, 1943; Deussen, 1939; Kellogg, 1936.

Stratigraphy: Allison, 1946; Beckelhymer, 1946; Cooper, H. H., 1937; Cushman, 1943; Deussen, 1939; Harris, Geo. D., 1941; Kane, 1935; Lonsdale, 1935, 1937; McCammon, 1942a; Meyer, 1939; Patterson, 1942; Plummer, F. B., 1933b; Stenzel, 1939a.

Yuma sandstone.

Paleontology: Renick, 1936.

Stratigraphy: Renick, 1936.

Structural features: King, P. B., 1935; Thompson, G. A., 1950.

Tesnus formation. *See* Pennsylvanian strata.Tessey limestone. *See* Permian strata.*Textularia warreni* beds. *See* Tertiary strata and rocks.Thecodontia. *See* Paleontology.Threadgill member. *See* Ordovician strata.Three Twins member. *See* Permian strata.Thrifty formation. *See* Pennsylvanian strata.

Throckmorton County.

Geothermal data: Barnes, V. E., 1946d.

Grooves, Permian limestone: Ray, 1942b.

Maps, geologic: Hornberger, 1937; Lee, W., 1938a.

Oil and gas. *See* North Woodson field under Oil and gas.

Oil field waters: Barnes, V. E., 1946d.

Stratigraphy: Lee, W., 1938a.

Tierra Vieja Mountains (Rim Rock country): Baker, C. L., 1935a, 1941.

Tinajitas. *See* Geomorphology.

Tin minerals (including cassiterite and stannite): Baker, C. L., 1935b; Evans, G. L., 1941a; McCammon, 1941; Sellards, 1940b, 1946b.

Titanium: Sellards, 1946b; Vogel, 1942.

Titus County.

Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.

Map, geologic: Broadhurst, 1950a.

Oil and gas. *See also* Talco field under Oil and gas. Oil Weekly, 1936.

Paleobotany: Berry, E. W., 1941.

Stratigraphy: Gardner, J. A., 1935.

Well records. *See* Ground water, above.

Tom Green County.

Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.

Meteorite: Barnes, V. E., 1940a.

Oil and gas. *See* Susan Peak field under Oil and gas.Well records. *See* Ground water, above.Toney sands. *See* Tertiary strata and rocks.

Topaz: McCammon, 1941; Sellards, 1946b.

Topography. *See also* Geomorphology.

Central Texas: Cloud, 1948b.

Continental shelf: Carsey, 1950; Critz, 1947; Mattison, 1948; Vaughan, 1940.

Corpus Christi area, south Texas: Price, W. A., 1933.

Dallas, transportation adjustments: Foscoe, 1936.

Edwards Plateau, pre-Cretaceous: Jager, 1942.

Texas, in general: Roemer, 1935.

Travis Peak formation: Cuyler, 1939.

Torcer formation. *See* Cretaceous strata.Tornillo clay. *See* Cretaceous strata.

Toyah basin, west Texas.

Ground water: Baker, C. L., 1935c; White, W. N., 1938.

Structure: Baker, C. L., 1935a; Sheldon, W., 1940.

Sulfur: Baker, C. L., 1935.

Tracks, trails, burrows, borings. *See* Paleontology.Trans-Pecos. *See also* comprising counties; specific areas; west Texas.

Abrasive materials: Baker, C. L., 1935c.

Barite: Baker, C. L., 1935b.

Building stone: Baker, C. L., 1935c.

Clay (bentonite): Baker, C. L., 1935c.

Coal: Baker, C. L., 1935c.

Conglomerates, diastrophism indicators: Smith, J. F., 1949a.

Copper: Baker, C. L., 1935b.

Feldspar: Baker, C. L., 1935b.

Field trips: Darton, 1933a; West Texas Geol. Soc., 1949c, 1949d, 1950.

Fluorspar: Evans, G. L., 1946c.

Gold: Baker, C. L., 1935b.

Ground water: Baker, C. L., 1935c.

Historical geology: Baker, C. L., 1941.

Igneous rocks. *See also* Igneous rocks, Baker, C. L., 1935a; King, P. B., 1935; Maley, 1938.

Map, geologic: King, P. B., 1935.

Oil and gas, possibilities: Levorsen, 1941b; West Texas Geol. Soc., 1941a.

Paleoclimate: Bryan, K., 1942, 1943.

Polished rocks: Adams, J. E., 1945; Bryan, K., 1942a; Lang, W. B., 1941a, 1948.

Possible mineral resources: Baker, C. L., 1944.

Problems, Cretaceous: Smith, J. F., 1940.

Relation to Conchos Valley, Chihuahua, Mexico:

Trans-Pecos—Continued

- King, R. E., 1946.
 River systems: King, P. B., 1935.
 Sanidine: Ives, R. L., 1940.
 Sedimentation. *See* Sedimentation, west Texas.
 Soils: Bryan, K., 1943; Carter, W. T., 1934.
 Stratigraphic correlations: Stephenson, L. W., 1942.
 Stratigraphy: Adkins, 1933a; Howard, W. V., 1942; Jones, C. T., 1938; King, P. B., 1934; 1934a, 1934b, 1935; Ver Wiebe, 1933; Wheeler, R. R., 1942, 1948.
 Structure: Baker, C. L., 1935a, 1941; King, P. B., 1935, 1938b; Wheeler, R. R., 1948.
 Sulfur: Baker, C. L., 1935b.
 Unconformities: Arick, 1936; Baker, C. L., 1936; King, P. B., 1936.
 Volcanic ash (pumicite): Baker, C. L., 1935c.
 Trap rock: Baker, C. L., 1935c.
 Travertine: Barkley, 1944, 1944a; Plummer, F. B., 1939b, 1944d; Sellards, 1946b.
 Travis County. *See also* Marshall Ford (Mansfield)
 Dam area; Pilot Knob
 Biostratigraphic relations: Lozo, 1944.
 Building stone: Barnes, V. E., 1947a; Nickell, C. O., 1941.
 Caves: Anonymous, 1934; Craun, 1948; White, P. J., 1948a.
 Clay, ceramic: Schoch, 1938a.
 Diastems: Frizzell, 1950a.
 Erosion, Little Walnut Creek: Stephenson, L. W., 1937.
 Faults: Damon, 1940a.
 Field trips: Damon, 1940a; Shreveport Geol. Soc., 1919; South Texas Geol. Soc., 1940; Stenzel, 1947.
 Ground water: Sayre, 1942; Sundstrom, 1949; Texas State Bd. Water Engrs.
 Igneous rocks: Damon, 1940a; Moody, 1949; Sellards, 1938d.
 Maps, geologic: Barnes, V. E., 1948; Damon, 1940a; Shreveport Geol. Soc., 1949; Stephenson, L. W., 1941a.
 Meteorite: Barnes, V. E., 1940a.
 Oil and gas: Sellards, 1938d.
 Oil field waters: Barnes, V. E., 1946d.
 Paleontology: Adkins, 1949; Cushman, 1936c, 1940a, 1940d; Feray, 1949; Grice, 1948; Ikins, 1940; Keijzer, 1942; Leriche, 1942; Loeblich, 1941; Lozo, 1944; McAnulty, 1940, 1941a; Plummer, H. J., 1949.
 Reefs: Durham, 1949.
 Sand and gravel: Nickell, C. O., 1941.
 Stratigraphy: Damon, 1940a; Durham, 1949; Ellisor, 1934; Feray, 1949; Gardner, J. A., 1935; Ikins, 1949; Lozo, 1949; Stephenson, L. W., 1937a; Nickell, C. O., 1941.
 Terraces (stream): Nickell, C. O., 1941.
 Well records: Texas State Bd. Water Engrs.
 Travis Peak formation. *See* Cretaceous strata.
 Triangulation data. *See* Cartography.

Triassic.

- Correlation: Langston, 1949; Shimer, 1934.
 Ground water: Knowles, 1946; Sayre, 1942a; White, W. N., 1948.
 Outcrops, Texas Panhandle: Kansas Geol. Soc., 1934.
 Paleogeography. *See* Paleogeography.
 Paleogeology. *See* Paleogeology.

Triassic—Continued

- Paleontology. *See* Paleontology and also Strata, below.
 Paleotectonic map: Eardley, 1949.
 Permian-Triassic problem: Anderson, G. E., 1933.
 Sedimentation. *See* Sedimentation, west Texas.
 Strata.
 Bissett conglomerate.
 Age: King, P. B., 1935a; Lang, W. B., 1935.
 Paleontology: King, P. B., 1938b.
 Stratigraphy: King, P. B., 1938b.
 Camp Spring conglomerate, stratigraphy: Adkins, 1933a.
 Chinle formation, stratigraphy: Adkins, 1933a; Giesey, 1941.
 Custer formation, stratigraphy: Roth, 1937.
 Dockum group: Morgan, A. M., 1942.
 Correlation: Langston, 1949.
 Paleontology: Adkins, 1933a; Colbert, 1950; Gregory, J. T., 1941a, 1945; Langston, 1949; Sawin, 1941a, 1945, 1947; Sternberg, 1941; Stovall, J. W., 1936; Wilson, J. A., 1941, 1948.
 Relation to Quartermaster: Griley, 1933.
 Siliceous conglomerates: Roth, 1943.
 Stratigraphy: Adkins, 1933a; Denham, 1941; Dickey, 1940; Livingston, 1944.
 Dozier Mounds dolomite: Roth, 1937.
 Eskota dolomite, stratigraphy: Roth, 1937.
 General stratigraphy: Dott, 1941; Ellison, 1948; Lang, W. B., 1935; Roth, 1933, 1940; Ver Wiebe, 1933; Warner, 1939.
 Pierce Canyon red beds, stratigraphy: Adams, J. E., 1935, 1936.
 Santa Rosa sandstone.
 Ground water: Knowles, 1947.
 Stratigraphy: Adkins, 1933a; Giesey, 1941.
 Shinarump formation: Keyes, 1936b.
 Tecovas formation, stratigraphy: Adkins, 1933a; Giesey, 1941; Page, 1940.
 Trujillo formation, stratigraphy: Adkins, 1933a.
 Structure map, High Plains: Baker, C. L., 1935c.
 Trilobita. *See* Paleontology.
 Trinity County.
 Clay, adsorptive: Hagner, 1939.
 Ground water: Sundstrom, 1948.
 Oil and gas. *See* Glendale field under Oil and gas.
 Paleontology: McAnulty, 1941a.
 Rice sand: Shafer, 1942.
 Well records: Rinehart, 1942; Sundstrom, 1948.
 Trinity group. *See* Cretaceous strata.
 Trinity River. *See* Streams.
 Trinity River tributary area.
 Abrasives: Stenzel, 1948e.
 Anhydrite: Kinney, 1948.
 Asphalt, bituminous sand: Stenzel, 1948b.
 Barite: Weissenborn, 1948c.
 Building stone: Stenzel, 1948k.
 Caliche: Stenzel, 1948j.
 Celestite: Stenzel, 1948f.
 Clay: Jenke, 1948, 1948a; Stenzel, 1948g, 1948h.
 Coal: Stenzel, 1948c.
 Copper: Weissenborn, 1948d.
 Dolomite: Stenzel, 1948i.
 Glass sand: Kinney, 1948d.
 Ground water: White, W. N., 1948.

Trinity River tributary area—Continued

- Gypsum: Kinney, 1948.
 Helium: Kinney, 1948a.
 Iron ores: Stenzel, 1948l.
 Lignite: Stenzel, 1948e.
 Limestone: Stenzel, 1948i, 1948j, 1948k.
 Manganese: Kinney, 1948g.
 Map, geologic: White, W. N., 1948.
 Oil and gas. *See* Oil and gas, general areas.
 Pent: Stenzel, 1948d.
 Phosphate rock: Jenke, 1948b.
 Portland cement materials: Kinney, 1948b.
 Resources, geologic: Weissenborn, 1948a, 1948b.
 Sand and gravel: Kinney, 1948c.
 Special sand: Kinney, 1948d.
 Shell deposits: Stenzel, 1948j.
 Soluble salts: Kinney, 1948e.
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 Tripoli. *See also* Spiculite. Baker, C. L., 1935c; Evans, G. L., 1944, 1946e; Sellards, 1946b.
Triticites zone. *See* Pennsylvanian strata.
 Trujillo formation. *See* Triassic strata.
 Tufa. *See* Travertine.
 Tuff: Barnes, V. E., 1944; Sellards, 1946b.
 Tuffs of Green Valley. *See* Tertiary strata and rocks.
 Tule formation. *See* Quaternary strata and deposits.
 Tungsten minerals: Baker, C. L., 1944; Barnes, V. E., 1942; Mathis, 1942; Sellards, 1941a, 1946b; Udden, 1941.
 Turkey Creek sandstone. *See* Pennsylvanian strata.
 Turquoise: Ross, 1935b; Sellards, 1946b.
 Two Mile member. *See* Tertiary strata and rocks.
 Tyler basin, east Texas.
 Oil and gas. *See* Oil and gas, general areas.
 Paleogeology: Levorsen, 1933.
 Stratigraphy: Bailey, 1945; Stenzel, 1948a.
 Tyler County.
 Ground water: Sundstrom, 1948.
 Oil and gas. *See* Camp Eleven, Fred, Joe's Lake, Ramers Island, Skillern, South Hyatt, Spurger, and Wurtsbaugh fields under Oil and gas.
 Paleontology: McAnulty, 1941a.
 Rice sand: Shafer, 1942.
 Well records: Rinehart, 1942; Sundstrom, 1948.
 Tyus member. *See* Tertiary strata and rocks.
 Unconformities: Adkins, 1936; Albritton, 1950; Arick, 1936; Bailey, T. L., 1945; Baker, C. L., 1936; Carsey, 1936; Cheney, 1936; Cloud, 1948b; Cox, 1940; Frizzell, 1950a; King, P. B., 1936; Levorsen, 1934; Moore, R. C., 1935; North Texas Geol. Soc., 1935; Panhandle Geol. Soc., 1936; Price, W. A., 1933a; Stenzel, 1936a; Stewart, 1949.
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 Upper Castile formation. *See* Permian strata.
 Upshur County. *See also* Kelsey anticline.
 Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.
 Iron ore: Anderson, G. H., 1942; Eckel, 1938.
 Maps, geologic: Broadhurst, 1950a; Denison, 1933.
 Oil and gas. *See* East Texas field under Oil and gas.
 Paleontology: Barton, H. M., 1948.
 Well records. *See also* Ground water, above. Rinehart, 1942.
 Upson clay. *See* Cretaceous strata.

Upton County.

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 Oil and gas. *See also* Benedum, Church-Fields, McElroy, McCamey, Pegasus, and Sweetie Peck fields under Oil and gas. Oil and Gas Jour., 1948.
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 Uvalde County.
 Asphalt: Baker, C. L., 1935c; Gorman, 1946; San Antonio Geol. Soc., 1937; Uitterbach, 1936.
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 Caves: White, P. J., 1948a.
 Faults: Sellards, 1935c.
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 Ground water: Baker, C. L., 1935c; Broadhurst, 1950; Livingston, 1947; Sayre, 1936, 1942.
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 Meteorite: Barnes, V. E., 1940a.
 Paleontology: Stenzel, 1948; Stephenson, L. W., 1947.
 Stratigraphy: Gardner, J. A., 1933, 1935; Sandidge, 1946.
 Well records: Broadhurst, 1950; Sayre, 1936.
 Uvalde deposits. *See* Quaternary strata and deposits; Tertiary strata and rocks.
 Vaca Trieste sand. *See* Permian strata.
 Vale formation. *See* Permian strata.
 Valera shale. *See* Permian strata.
 Valley Spring gneiss. *See* Precambrian rocks.
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 Val Verde County. *See also* Val Verde basin.
 Barite: Barnes, V. E., 1939; Evans, G. L., 1946a.
 Caves: Anonymous, 1934; Jackson, 1948; White, P. J., 1948b.
 Faults: Sellards, 1935c.
 Ground water: Broadhurst, 1949; Sayre, 1942; Texas State Bd. Water Engrs.
 Manganese: Baker, C. L., 1935b; Warren, 1942, 1946.
 Map, geologic: Darton, 1933.
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 Van Horn sandstone. *See* Cambrian strata; Precambrian rocks.
 Van Horn uplift, region. *See also* Carrizo Mountains.
 Copper: Sample, 1945.
 Field trips: Darton, 1933a; West Texas Geol. Soc., 1939, 1949d.
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 Mica: Redfield, 1946.
 Silver: Sample, 1945.
 Stratigraphy: King, P. B., 1940; Sellards, 1933b.
 Structure: Baker, C. L., 1935a; King, P. B., 1940.
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Van Zandt County.

- Geophysics: Liddle, 1937; Peters, 1945.
 Geothermal data: Van Orstrand, 1933.
 Map, geologic: Liddle, 1937.
 Mounds: Rich, 1934.
 Oil and gas: *See* Van field under Oil and gas.
 Salt: Anonymous, 1934; Balk, 1949; Young, F. S., 1935.
 Salt domes. *See* Grand Saline dome under Salt domes.
 Soils: Goke, 1933.
 Stratigraphy: Gardner, J. A., 1935; Liddle, 1937; Morgen, A., 1940.

Veleno member. *See* Tertiary strata and rocks.Vermes. *See* Paleontology.

Vermiculite: Baker, 1935b; Barnes, V. E., 1944; Mc-Millan, 1949; Sellards, 1946b.

Vertebrata. *See* Paleontology.

Vesuvianite: Baker, C. L., 1935b.

Vicksburg group. *See* Tertiary strata and rocks.

Victoria County.

- Ground water: Broadhurst, 1950; Texas State Bd. Water Engrs.
 Oil and gas. *See* Heyser, Keeran, McFaddin-O'Connor, and Placodo fields under Oil and gas.
 Paleontology: McAnulty, 1941a.
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Victorio flexure, Hudspeth County: King, P. B., 1942.

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Viviana quicksilver mine, Brewster County: Yates, 1943a.

Volcanic ash: Baker, C. L., 1935c; Baldwin, 1941; Bowling, 1933; Evans, G. L., 1941a, 1944, 1946e; Landes, 1938; Plummer, F. B., 1933b; Ramsey, 1936; Schoch, 1938a; Sedlmayer, 1939; Sellards, 1946b; Shafer, 1942; Sidwell, 1946; Stenzel, 1948e; Swineford, 1949.

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Walker County.

- Clay (fuller's earth): Schoch, 1938a.
 Geophysics: Jenny, 1942; Kendall, J. M., 1941.
 Ground water: Sundstrom, 1948; Winslow, 1950.
 Map, geologic: Winslow, 1950.
 Oil and gas. *See* Sam Houston field under Oil and gas.
 Paleobotany: Ball, 1939.
 Rice sand: Shafer, 1942.
 Well records. *See also* Ground water, above. Rinehart, 1942.

Waller County, *See also* Brazos River syncline.

- Geophysics: Lewis, W. B., 1948.
 Ground water: Foster, M. D., 1939; Sundstrom, 1948; Texas State Bd. Water Engrs.; White, W. N., 1939, 1942, 1944.
 Map, geologic: Foster, M. D., 1939.
 Oil and gas. *See* Brookshire and Katy fields under Oil and gas.
 Salt domes. *See* San Felipe dome under Salt domes.
 Stratigraphy: Beckelhymer, 1946.

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- Well records: Rinehart, 1942; Sundstrom, 1948; Texas State Bd. Water Engrs.; White, W. N., 1939, 1942, 1944.

Walnut clay. *See* Cretaceous strata.Ward County. *See also* Toyah basin.

- Cross sections: Doherty, 1938; Ellison, 1950; West Texas Geol. Soc., 1949; Woods, E. H., 1940.

Geomorphology (sand dunes): Huffington, 1941b.

Ground water: Broadhurst, 1949; Sayre, 1942a.

Meteorite: Barnes, V. E., 1940a; Buddhue, 1939; Nininger, 1939.

Oil and gas. *See also* Payton and Shipley fields under Oil and gas. Denham, 1941.

Sodium sulfate: Tyler, 1935.

Ward sand. *See* Tertiary strata and rocks.Washington County. *See also* Brazos River syncline.

Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.

Maps, geologic: Ferguson, W. B., 1936; Renick, 1936.

Oil and gas. *See* Brenham and Clay Creek fields under Oil and gas.

Paleontology: McAnulty, 1941a; Wood, H. E., 1937.

Salt domes. *See* Brenham and Clay Creek domes under Salt domes.

Stratigraphy: Renick, 1936.

Volcanic ash: Schoch, 1938a.

Well records. *See also* Ground water, above. Rinehart, 1942.Washita group. *See* Cretaceous strata.Watts Creek shale. *See* Permian strata.Wayland shale. *See* Pennsylvanian strata.

Webb County.

- Agate: Dake, H. C., 1946.
 Clay (bentonite): Schoch, 1938a.
 Coal: Baker, C. L., 1935c; Fieldner, 1946; Lonsdale, 1937.
 Faults: Robinson, 1945.
 Geology, general: Lonsdale, 1937.
 Geophysics: Robinson, 1945.
 Ground water: Broadhurst, 1950; Lonsdale, 1937.
 Maps, geologic: Lonsdale, 1937; Wynd, 1944a.
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Weches member. *See* Tertiary strata and rocks.Welge sandstone. *See* Cambrian strata.Wellborn sandstone. *See* Tertiary strata and rocks.Well records. *See* general areas; Oil and gas, fields; specific counties.Electrical logging. *See* Geophysics.

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Oil wells. *See* Oil and gas, fields.

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West-central Texas. *See also* comprising counties.

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 Elevations: Staack, 1941a.
 Field trips: Abilene Geol. Soc., 1948a, 1949.
 Formation chart: Passel, 1950.
 Geothermal data: Jenke, 1950.
 Oil and gas. *See* Oil and gas, general areas.
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 Thin sand. *See* Tertiary strata and rocks.
West Texas. *See also* comprising counties; Big Bend area; Black Shale basin; Central Basin Platform; Delaware basin; Eastern platform; Midland basin; Pecos River basin; Permian basin; Sheffield channel; Toyah basin; Trans-Pecos area.
 Axes, maximum deposition: Barton, J. M., 1945.
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 Geothermal data: Birch, 1945; Nichols, 1946.
 Ground water: Broadhurst, 1949; Plummer, F. B., 1946.
 Historical geology: Adams, H. H., 1943; Adams, J. E., 1950.
 Igneous rocks. *See also* Igneous rocks. Landes, 1935a; Plummer, F. B., 1933b.
 Limestone: Cunningham, 1935a.
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 Oil and gas. *See* Oil and gas, general areas.
 Oil field waters: Case, L. C., 1942; De Sitter, 1947.
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Precambrian surface: Moss, 1936.

Reefs. *See* Reefs.Sedimentation. *See* Sedimentation.

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Structure: Baker, C. L., 1933; DeFord, 1940; Deussen, 1936.

Well records: Broadhurst, 1949; Gillingham, 1938; Ingalls, 1950a; Jenny, 1943; Morazzani, 1950; Patton, 1945a, 1947.

Wind-blown sands: Adams, H. H., 1943.

Wharton County.

Cross section: Deussen, 1939.

Ground water: Barnes, J. R., 1948; Sundstrom, 1948; Texas State Bd. Water Engrs.

Oil and gas. *See also* Abel Borden, Blue Basin, Boling, Crescent, Daboval, East Bernard, Egypt, El Campo, Hillie, Hungerford, Hutchins-Kubela, Lakeview, Lane City, Lissie, Louise, Magnet-Withers, Matzke, Menefee, North Withers, Pickett Ridge, Prasifka, South Hutchins, Spanish Camp, Twin Basin, West Bernard, and West Withers fields under Oil and gas. Oil Weekly, 1935.

Salt dome. *See* Boling dome under Salt domes.

Sulfur: Baker, C. L., 1935; Wolf, A. G., 1933.

Well records. *See also* Ground water, above. Rinehart, 1942.

Wheeler County.

Ground water: Broadhurst, 1949.

Map, geologic: Roth, 1937.

Oil and gas. *See* Panhandle field under Oil and gas.

Soils: Bean, A. H., 1936.

Stratigraphy: Roth, 1937.

Wheelock marl. *See* Tertiary strata and rocks.Whitehorse sandstone. *See* Permian strata.Whitsett formation. *See* Tertiary strata and rocks.Whitt group. *See* Pennsylvanian strata.**Wichita County.**

Geothermal data: Barnes, V. E., 1946d.

Ground water: Sundstrom, 1949.

Insoluble residues (Ellenburger): Hendricks, L., 1940.

Maps, geologic: Lyle, 1941; Univ. Texas, Bur. Econ. Geology, 1937.

Meteorite: Barnes, V. E., 1940a.

Oil and gas. *See also* Burkburnett, Electra, and K.M.A. fields under Oil and gas. Sanford, 1941a.

Oil field waters: Barnes, V. E., 1946d.

Oil mine. *See* Electra field under Oil and gas.

Paleontology: Romer, 1937a; Sawin, 1941.

Road materials: Lyle, 1941.

Sand and gravel: Lyle, 1941.

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Well records: Hendricks, L., 1940.

Wichita group. *See* Permian strata.

Wilbarger County.

Geothermal data: Barnes, V. E., 1946d.

Ground water: Follett, 1944; Sundstrom, 1949.

Oil and gas. *See also* Fargo, Harrold, K.M.A., and Rock Crossing fields under Oil and gas. Lahee, 1934; McCoy, 1934.

Oil field waters: Barnes, V. E., 1946d.

Paleontology: McAnulty, 1941a.

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Wilberns formation. *See* Cambrian strata.

Wilcox group. *See* Tertiary strata and rocks.

Wilcox trend. *See* Sparta-Wilcox trend under Oil and gas, general areas.

Wildcat Creek shale. *See* Permian strata.

Wiles limestone. *See* Pennsylvanian strata.

Willacy County.

Ground water: Broadhurst, 1950.

Oil and gas. *See also* Willamar field under Oil and gas. Rall, 1949.

Well records: Broadhurst, 1950.

Williams cave. *See* Caves and caverns.

Williams pegmatite, Llano County: Barnes, V. E., 1946b.

Williamson County.

Building stone: Barnes, V. E., 1947a.

Caves: White, P. J., 1948a.

Field trip: Shreveport Geol. Soc., 1949.

Geomorphology: Blank, 1947.

Gravel, road material: Leedy, 1937.

Ground water: Sundstrom, 1949; Texas State Bd. Water Engrs.

Maps, geologic: Shreveport Geol. Soc., 1949; Stephenson, L. W., 1941a.

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Oil and gas: Sellards, 1938d.

Paleontology: Cushman, 1941; Feray, 1949; Ikins, 1940; McAnulty, 1941a; Wells, 1944.

Soils: Templin, 1938.

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Well records: Texas State Bd. Water Engrs.

Willis sand. *See* Quaternary strata and deposits; Tertiary strata and rocks.

Wills Point formation. *See* Tertiary strata and rocks.

Wilson County.

Clay: Cowan, 1942; King, P. B., 1940a.

Cross section: South Texas Geol. Soc., 1949a.

Field trip: Corpus Christi Geol. Soc., 1948.

Ground water: Broadhurst, 1950; Texas State Bd. Water Engrs.

Lignite: Cowan, 1942.

Map, geologic: King, P. B., 1940a.

Well records. *See also* Ground water, above. Rinehart, 1942.

Winchell member. *See* Pennsylvanian strata.

Winkler County. *See also* Toyah basin.

Cross sections: Doherty, 1938; Ellison, 1950; West Texas Geol. Soc., 1949; Woods, E. H., 1940.

Crystalline rock, deep well: Patton, 1945.

Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.

Oil and gas. *See also* Hendrick, Keystone, North Monahans, and Wheeler fields under Oil and

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gas. Denham, 1941.

Paleontology: Fritz, 1940a; Hills, 1940.

Potash (langbeinite): Johnson, B. L., 1944.

Well records. *See also* Ground water, above. Patton, 1945.

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Biostratigraphic relations: Lozo, 1944.

Coal: Fieldner, 1946.

Cross section: Gee, 1950.

Ground water: Sundstrom, 1949.

Maps, geologic: Adkins, 1933a; Armstrong, 1937.

Paleontology: King, R. H., 1940; Lozo, 1944; Moore, R. C., 1940b.

Stratigraphy: Thompson, S. A., 1935.

Well records: Sundstrom, 1949.

Wolfcamp formation. *See* Permian strata.

Wolfe City sand. *See* Cretaceous strata.

Wolf Mountain granite phacolith, Llano County: McAdams, 1936; Stenzel, 1936.

Wolf Mountain shale. *See* Pennsylvanian strata.

Wonder cave. *See* Caves and caverns.

Woodbine sand. *See* Cretaceous strata.

Wood County.

Asphaltic sand: Taliaferro, 1946.

Geophysics: Boissonnas, 1948.

Ground water: Sundstrom, 1948; Texas State Bd. Water Engrs.

Map, geologic: Wendlandt, 1946.

Oil and gas. *See* Black Oak, Hawkins, Merigale-Paul, and Quitman fields under Oil and gas.

Salt dome. *See* Haynesville dome under Salt domes.

Well records. *See also* Ground water, above. Oil and Gas Jour., 1942g.

Woodford shale. *See* Devonian strata.

Woods Hollow shale. *See* Ordovician strata.

Wooley's Bluff clays. *See* Tertiary strata and rocks.

Word formation. *See* Permian strata.

Worms. *See* Paleontology, Vermes.

Wortham aragonite lentil. *See* Tertiary strata and rocks.

Wylie Mountains, Culberson County: Baker, C. L., 1935a.

Wynn limestone. *See* Pennsylvanian strata.

Yates sand. *See* Permian strata.

Yegua formation. *See* Tertiary strata and rocks.

Yeso member. *See* Permian strata.

Yoakum County.

Cross section: Fritz, 1940.

Ground water: Broadhurst, 1949; Texas State Bd. Water Engrs.

Oil and gas. *See* Bennett and Wasson fields under Oil and gas.

Well records: Texas State Bd. Water Engrs.

Yoakum dolomite. *See* Permian strata.

Young County.

Building stone: Criswell, 1942.

Caliche: Criswell, 1942.

Clay, ceramic: Pence, 1949a; Plummer, F. B., 1949.

Coal: Criswell, 1942.

Geothermal data: Barnes, V. E., 1946d.

Ground water: Criswell, 1942.

Maps, geologic: Criswell, 1942; Lee, W., 1938a; Plummer, F. B., 1937e, 1949.

Oil and gas. *See also* Larimore, Moren-Kisinger, Sewell-Eddleman, and South Bend fields under Oil and gas. Criswell, 1942.

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Oil field waters: Barnes, V. E., 1946d.

Paleontology: Cooper, G. A., 1941; Coryell, H. N., 1933; Elias, 1938; Geis, 1936; Girty, 1939; Moore, R. C., 1940b; Newell, 1938a, 1942; Plummer, H. J., 1943; Romer, 1942.

Sand and gravel: Criswell, 1942.

Sewell-Eddleman area: Applin, P. L., 1942.

Stratigraphy: Lee, W., 1938a.

Yucca bed. *See* Cretaceous strata.

Yuma sandstone. *See* Tertiary strata and rocks.

Zapata County.

Field trip: South Texas Geol. Soc., 1939.

Ground water: Broadhurst, 1950.

Map, geologic: Kane, 1936; Wynd, 1944a.

Oil and gas: Cooper, H. H., 1937.

Stratigraphy: Patterson, 1942.

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Structure: Kane, 1936.

Well records: Rinehart, 1942.

Zavala County.

Cross section: South Texas Geol. Soc., 1949a.

Ground water: Broadhurst, 1950; Livingston, 1947; Texas State Bd. Water Engrs.

Map, geologic: Wynd, 1944a.

Oil and gas. *See* Del Monte field under Oil and gas.

Road material: Evans, G. L., 1941a.

Soils: Smith, H. M., 1940.

Well records: Rinehart, 1942; Texas State Bd. Water Engrs.

Zesch formation. *See* Devonian strata.

Zinc minerals: Baker, C. L., 1935b; Cullison, 1944, 1944a; Dennis, 1946a, 1947a; McMillan, 1949a; Ross, 1935b, 1943a; Sellards, 1940b, 1946b.